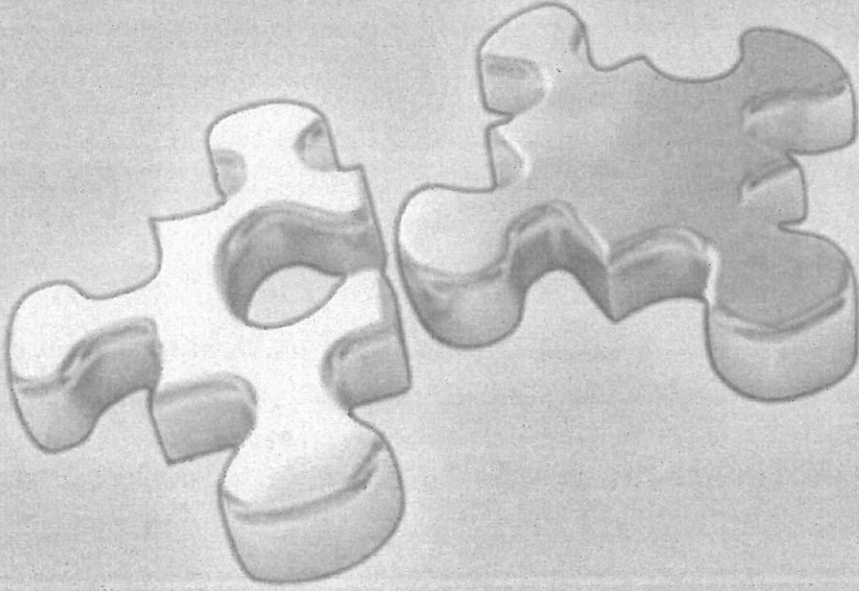


ÇAĞDAŞ ANALİZ

YÖS



**GEOMETRİ
SORU BANKASI**

ÖNSÖZ

Sevgili YÖS Adayları;

Çağdaş Analiz Eğitim Kurumları Türkiye'nin SADECE YÖS HAZIRLIK yapan ilk ve tek kurumudur. Eğitim kalitesiyle, YÖS konusundaki bilgi, birikim ve tecrübesiyle, öğrencilerinin her yıl katlanarak artan başarılarıyla rakipsiz olan Çağdaş Analiz, yayınlarıyla da sizlerin en büyük yardımcısı olmaktadır.

Çünkü Çağdaş Analiz Eğitim Kurumları bütün YÖS adaylarını kendi öğrencisi gibi görmektedir.

Sahip olduğumuz bütün güçle ve YÖS Hazırlık lideri olmanın sorumluluğuyla her zaman yanınızda olduğumuzu bilmenizi isteriz.

Hepinize başarılar dileriz.

ÇAĞDAŞ ANALİZEĞİTİM KURUMLARI

Bu kitabın tüm hakları BERFİN EĞİTİM HİZ. SAN. TİC. LTD. ŞTİ ve ÇAĞDAŞ ANALİZ Eğitim Kurumlarına aittir.

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Kitabın tüm basım ve yayın hakları Türkiye Cumhuriyeti'nin ilgili Telif Yasası hükümlerince güvence altına alınmıştır.

Ayrıca, kitabın izinsiz kullanımını önlemek amacıyla özel güvence önlemleri mevcuttur. İzinsiz kullanım durumunda tüm maddi ve manevi yasal sorumluluklar kullanıcıya aittir.

Baskı: İstanbul 2015 (II. Baskı)

ISBN : 978-9944-5997-6-4

Kitap İsteme Adresi

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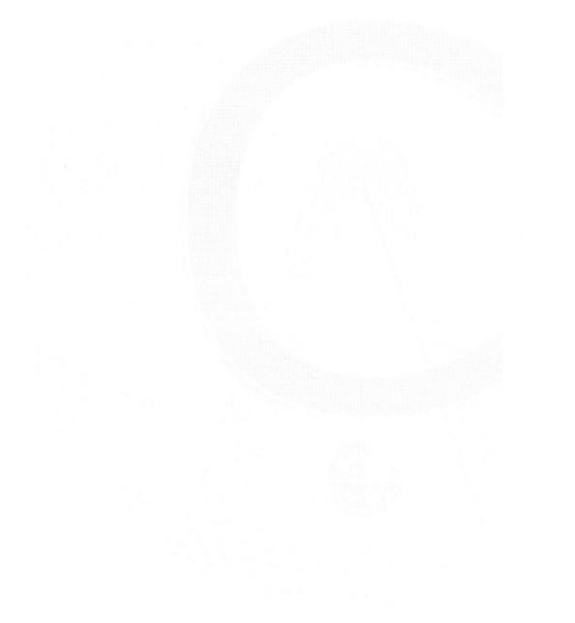
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1. BÖLÜM

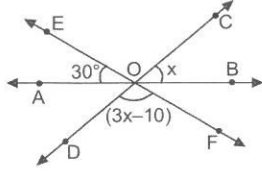
DOĞRUDA AÇI







1.



$$m(\widehat{DOF}) = (3x - 10)^\circ$$

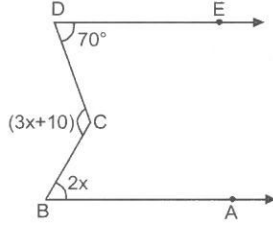
$$m(\widehat{AOE}) = 30^\circ$$

$$m(\widehat{COB}) = x^\circ$$

 $x = ?$

- A) 20 B) 30 C) 40 D) 50 E) 60

2.



$$[DE \parallel BA$$

$$m(\widehat{EDC}) = 70^\circ$$

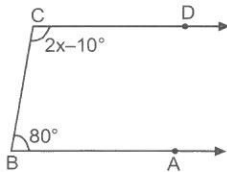
$$m(\widehat{DCB}) = (3x + 10)^\circ$$

$$m(\widehat{CBA}) = (2x)^\circ$$

 $x = ?$

- A) 60 B) 55 C) 50 D) 45 E) 40

3.



$$[CD \parallel BA$$

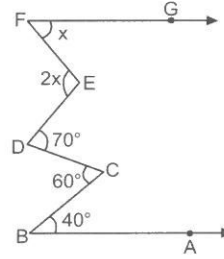
$$m(\widehat{DCB}) = (2x - 10)^\circ$$

$$m(\widehat{ABC}) = 80^\circ$$

 $x = ?$

- A) 45 B) 50 C) 55 D) 60 E) 65

4.



$$[FG \parallel BA$$

$$m(\widehat{GFE}) = (x)^\circ$$

$$m(\widehat{FED}) = (2x)^\circ$$

$$m(\widehat{EDC}) = 70^\circ$$

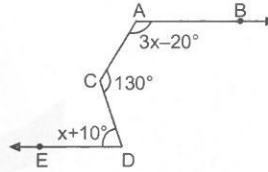
$$m(\widehat{DCB}) = 60^\circ$$

$$m(\widehat{CBA}) = 40^\circ$$

 $x = ?$

- A) 30 B) 35 C) 40 D) 45 E) 50

5.



$$[AB \parallel DE$$

$$m(\widehat{CDE}) = (x + 10)^\circ$$

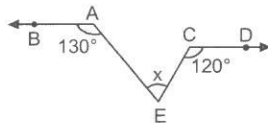
$$m(\widehat{ACB}) = (130)^\circ$$

$$m(\widehat{BAC}) = (3x - 20)^\circ$$

 $m(\widehat{CDE}) = ?$

- A) 35 B) 40 C) 45 D) 50 E) 55

6.



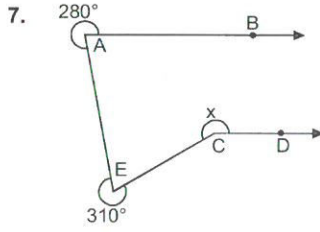
$$[AB \parallel CD$$

$$m(\widehat{ECD}) = 120^\circ$$

$$m(\widehat{BAE}) = 130^\circ$$

 $m(\widehat{AEC}) = x = ?$

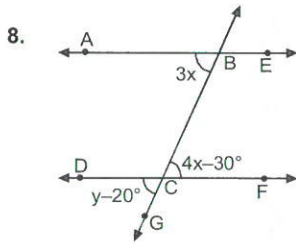
- A) 55 B) 60 C) 65 D) 70 E) 75



$$\begin{aligned} [AB // CD \\ m(\widehat{BAE}) &= 280^\circ \\ m(\widehat{AEC}) &= 310^\circ \end{aligned}$$

$$x = ?$$

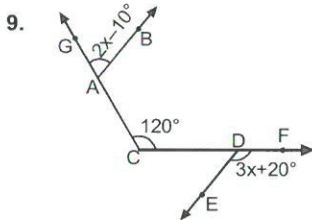
- A) 220 B) 230 C) 240 D) 250 E) 260



$$\begin{aligned} AE // DF \\ m(\widehat{ABC}) &= (3x)^\circ \\ m(\widehat{BCF}) &= (4x - 30)^\circ \\ m(\widehat{DCG}) &= (y - 20)^\circ \end{aligned}$$

$$y = ?$$

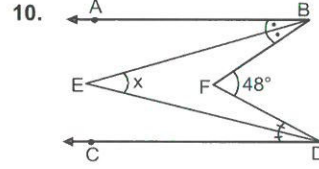
- A) 50 B) 68 C) 78 D) 94 E) 110



$$\begin{aligned} [AB // DE \\ m(\widehat{GAB}) &= (2x - 10)^\circ \\ m(\widehat{ACD}) &= 120^\circ \\ m(\widehat{EDF}) &= (3x + 20)^\circ \end{aligned}$$

$$m(\widehat{GAB}) = ?$$

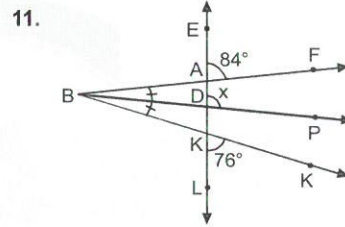
- A) 30 B) 40 C) 50 D) 60 E) 70



$$\begin{aligned} [BA // DC \\ m(\widehat{BFD}) &= 48^\circ \\ m(\widehat{BED}) &= x \end{aligned}$$

$$x = ?$$

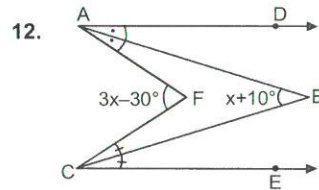
- A) 20 B) 24 C) 28 D) 32 E) 36



$$\begin{aligned} m(\widehat{EAF}) &= 84^\circ \\ m(\widehat{KML}) &= 76^\circ \\ m(\widehat{ADP}) &= x \end{aligned}$$

$$x = ?$$

- A) 98 B) 94 C) 88 D) 84 E) 78



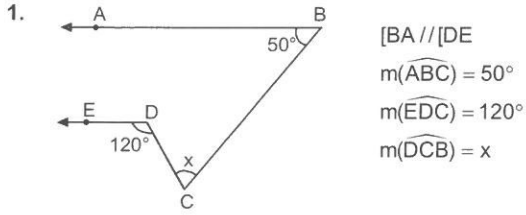
$$\begin{aligned} [AD // CE \\ m(\widehat{ABC}) &= (x + 10)^\circ \\ m(\widehat{AFC}) &= (3x - 30)^\circ \end{aligned}$$

$$x = ?$$

- A) 65 B) 60 C) 55 D) 50 E) 45

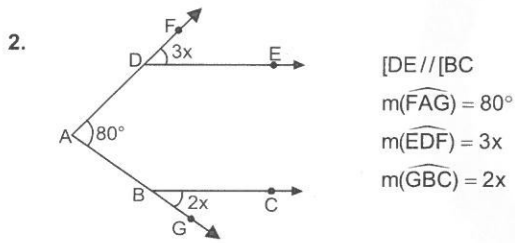
Cevap Anahtarı – Answer Sheet

1.C	2.A	3.C	4.E	5.B	6.D
7.B	8.E	9.C	10.B	11.B	12.D



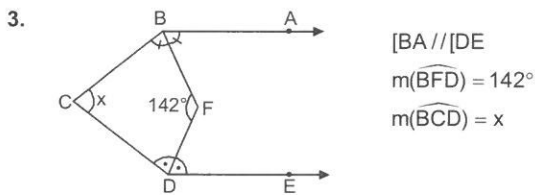
$x = ?$

- A) 45 B) 50 C) 60 D) 70 E) 75



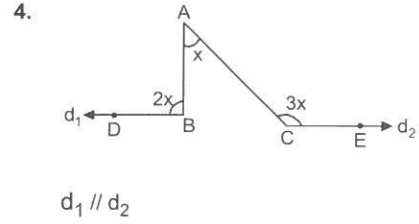
$m(\widehat{GBC}) = ?$

- A) 30 B) 32 C) 36 D) 42 E) 48



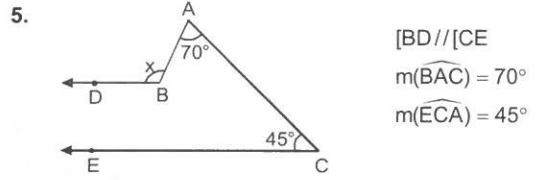
$x = ?$

- A) 82 B) 78 C) 76 D) 72 E) 68



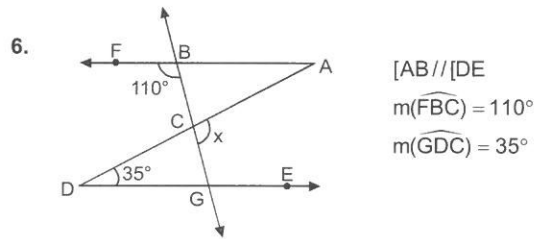
$x = ?$

- A) 48 B) 45 C) 42 D) 36 E) 32



$m(\widehat{DBA}) = x = ?$

- A) 115 B) 110 C) 105 D) 95 E) 90

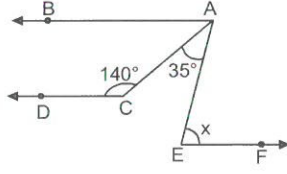


$x = ?$

- A) 95 B) 100 C) 105 D) 110 E) 115



7.

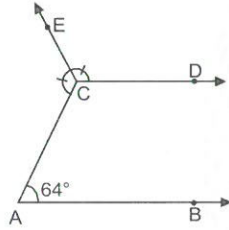


$$\begin{aligned} [AB // [CD // [EF \\ m(\widehat{CAE}) &= 35^\circ \\ m(\widehat{DCA}) &= 140^\circ \end{aligned}$$

$$x = ?$$

- A) 75 B) 72 C) 65 D) 63 E) 60

8.

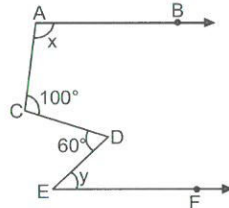


$$\begin{aligned} [CD // [AB \\ m(\widehat{BAC}) &= 64^\circ \end{aligned}$$

$$m(\widehat{ACE}) = ?$$

- A) 128 B) 122 C) 120 D) 116 E) 110

9.

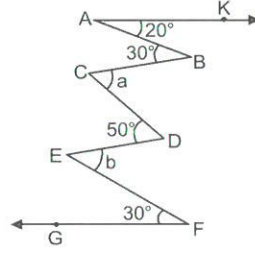


$$[AB // [EF$$

$$x + y = ?$$

- A) 100 B) 110 C) 120 D) 130 E) 140

10.

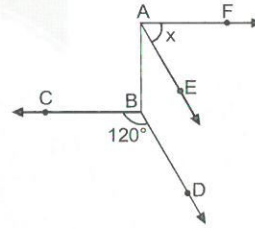


$$[AK // [FG$$

$$a + b = ?$$

- A) 110 B) 105 C) 100 D) 90 E) 85

11.

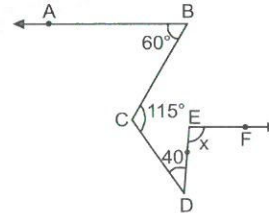


$$\begin{aligned} [AF // [BC \\ [AE // [BD \\ m(\widehat{CBD}) &= 120^\circ \\ m(\widehat{FAE}) &= x \end{aligned}$$

$$x = ?$$

- A) 70 B) 60 C) 50 D) 40 E) 30

12.



$$\begin{aligned} [BA // [EF \\ m(\widehat{ABC}) &= 60^\circ \\ m(\widehat{BCD}) &= 115^\circ \\ m(\widehat{CDE}) &= 40^\circ \end{aligned}$$

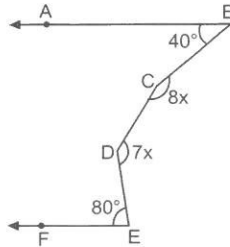
$$x = ?$$

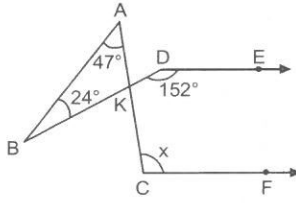
- A) 105 B) 95 C) 90 D) 85 E) 80

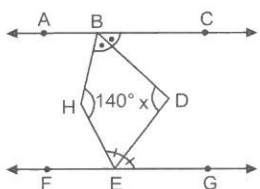
Cevap Anahtarı – Answer Sheet

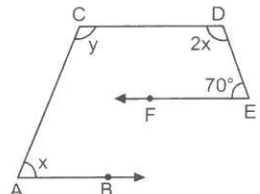
1.D	2.B	3.C	4.B	5.A	6.C
7.A	8.B	9.E	10.D	11.B	12.B

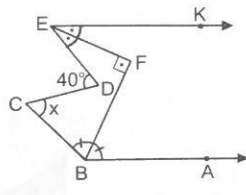


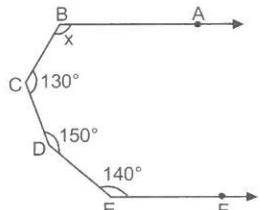
1. 
- $[BA \parallel EF]$
 $m(\widehat{ABC}) = 40^\circ$
 $m(\widehat{DEF}) = 80^\circ$
 $m(\widehat{BCD}) = 8x$
 $m(\widehat{CDE}) = 7x$
- $x = ?$
- A) 12 B) 16 C) 20 D) 24 E) 30

2. 
- $[DE \parallel CF]$
 $m(\widehat{BAK}) = 47^\circ$
 $m(\widehat{ABD}) = 24^\circ$
 $m(\widehat{KDE}) = 152^\circ$
- $m(\widehat{KCF}) = x = ?$
- A) 109 B) 107 C) 101 D) 99 E) 97

3. 
- $[BC \parallel EG]$
 $m(\widehat{BHE}) = 140^\circ$
 $m(\widehat{BDE}) = x$
 $m(\widehat{HBD}) = m(\widehat{DBC})$
 $m(\widehat{HED}) = m(\widehat{DEG})$
- $x = ?$
- A) 120 B) 110 C) 100 D) 90 E) 80

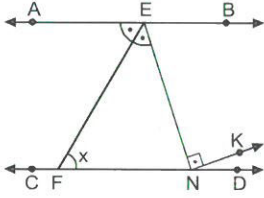
4. 
- $[AB \parallel EF \parallel DC]$
 $m(\widehat{FED}) = 70^\circ$
 $m(\widehat{EDC}) = 2x$
 $m(\widehat{DCA}) = y$
 $m(\widehat{CAB}) = x$
- $y = ?$
- A) 110 B) 120 C) 125 D) 135 E) 140

5. 
- $[EK \parallel BA]$
 $m(\widehat{EDC}) = 40^\circ$
 $[EF] \perp [BF]$
- $x = ?$
- A) 35 B) 40 C) 45 D) 50 E) 55

6. 
- $[BA \parallel EF]$
 $m(\widehat{ABC}) = x$
- $x = ?$
- A) 100 B) 110 C) 115 D) 120 E) 125



7.

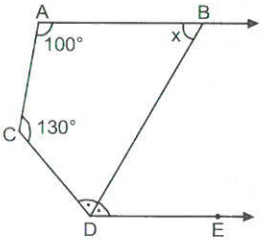


$AB \parallel CD$
 $m(\widehat{AEF}) = m(\widehat{FEN})$
 $[EN] \perp [NK]$
 $m(\widehat{KND}) = 32^\circ$
 $m(\widehat{EFN}) = x$

 $x = ?$

A) 61 B) 60 C) 59 D) 58 E) 57

8.

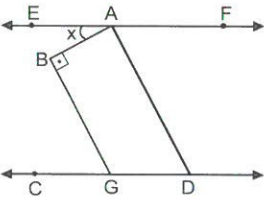


$[AB] \parallel [DE]$
 $m(\widehat{BAC}) = 100^\circ$
 $m(\widehat{ACD}) = 130^\circ$
 $m(\widehat{CDB}) = m(\widehat{BDE})$
 $m(\widehat{ABD}) = x$

 $x = ?$

A) 60 B) 65 C) 70 D) 75 E) 80

9.

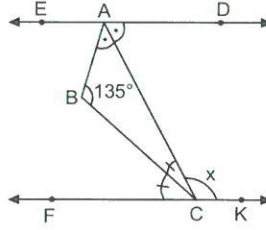


$EF \parallel CD$
 $[AB] \perp [BG]$
 $[BG] \parallel [AD]$
 $m(\widehat{ADC}) = 60^\circ$
 $m(\widehat{EAB}) = x$

 $x = ?$

A) 20 B) 25 C) 30 D) 35 E) 40

10.

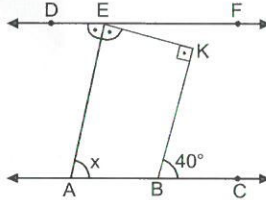


$ED \parallel FK$
 $m(\widehat{BAC}) = m(\widehat{CAD})$
 $m(\widehat{ACB}) = m(\widehat{BCF})$
 $m(\widehat{ABC}) = 135^\circ$
 $m(\widehat{ACK}) = x$

 $x = ?$

A) 110 B) 120 C) 130 D) 140 E) 150

11.

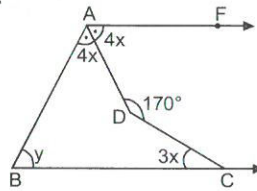


$DF \parallel AC$
 $[EK] \perp [KB]$
 $m(\widehat{DEA}) = m(\widehat{AEK})$
 $m(\widehat{KBC}) = 40^\circ$
 $m(\widehat{EAC}) = x$

 $x = ?$

A) 50 B) 55 C) 60 D) 65 E) 70

12.



$[AF] \parallel [BC]$
 $m(\widehat{BAD}) = m(\widehat{DAF}) = 4x$
 $m(\widehat{DCB}) = 3x$
 $m(\widehat{ABC}) = y$
 $m(\widehat{ADC}) = 170^\circ$

 $y = ?$

A) 110 B) 100 C) 90 D) 80 E) 70

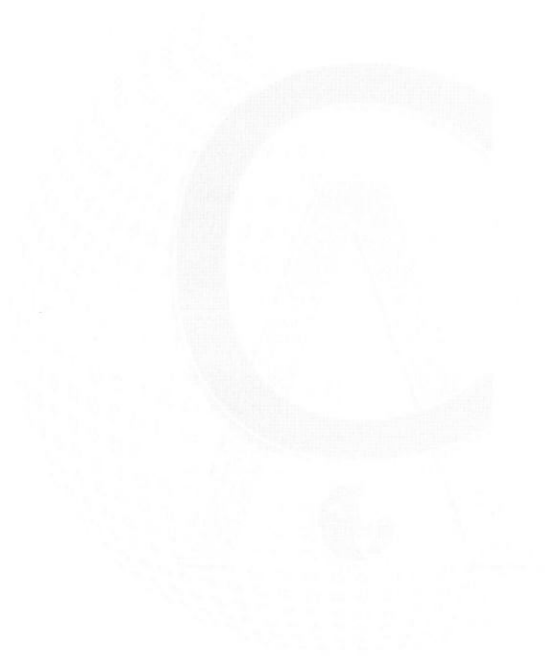
Cevap Anahtarı – Answer Sheet

1.C	2.D	3.B	4.C	5.B	6.D
7.A	8.B	9.C	10.E	11.D	12.B

2. BÖLÜM

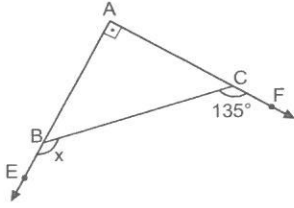
ÜÇGENDE AÇI







1.

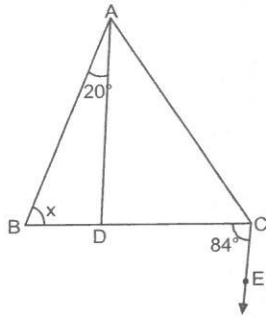


$$\begin{aligned} [AF] &\perp [AE] \\ m(\widehat{BCF}) &= 135^\circ \\ m(\widehat{CBE}) &= x \end{aligned}$$

$$x = ?$$

- A) 120 B) 125 C) 130 D) 135 E) 145

2.

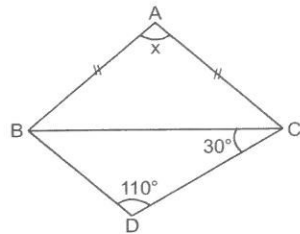


$$\begin{aligned} [AD] &\parallel [CE] \\ m(\widehat{BCE}) &= 84^\circ \\ m(\widehat{BAD}) &= 20^\circ \\ m(\widehat{ABC}) &= x \end{aligned}$$

$$x = ?$$

- A) 64 B) 62 C) 58 D) 52 E) 48

3.

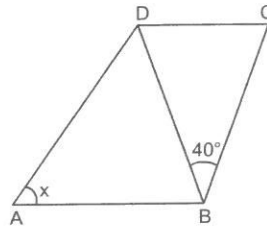


$$\begin{aligned} [AC] &\parallel [BD] \\ |AB| &= |AC| \\ m(\widehat{BAC}) &= x \end{aligned}$$

$$x = ?$$

- A) 100 B) 85 C) 80 D) 70 E) 60

4.

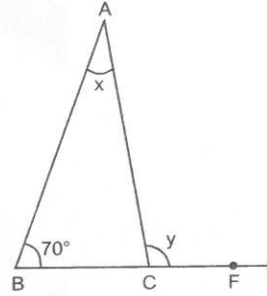


$$\begin{aligned} [DC] &\parallel [AB] \\ |BD| &= |BC| \\ |AB| &= |AD| \\ m(\widehat{CBD}) &= 40^\circ \\ m(\widehat{BAD}) &= x \end{aligned}$$

$$x = ?$$

- A) 20 B) 25 C) 30 D) 35 E) 40

5.

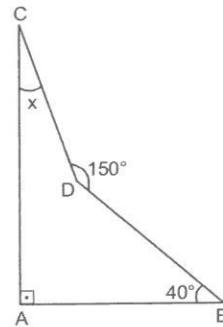


$$\begin{aligned} m(\widehat{ABC}) &= 70^\circ \\ x + y &= 130^\circ \\ m(\widehat{BAC}) &= x \end{aligned}$$

$$x = ?$$

- A) 25 B) 30 C) 35 D) 40 E) 50

6.



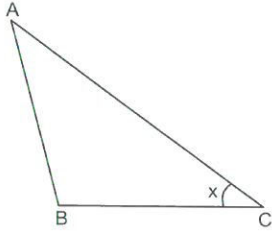
$$\begin{aligned} m(\widehat{CDB}) &= 150^\circ \\ m(\widehat{DBA}) &= 40^\circ \\ m(\widehat{ACD}) &= x \end{aligned}$$

$$x = ?$$

- A) 15 B) 20 C) 25 D) 30 E) 35



7.

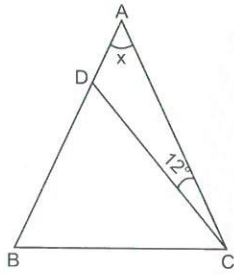


$$\begin{aligned} |AB| &= |BC| \\ \frac{m(\widehat{BAC})}{m(\widehat{ABC})} &= \frac{1}{3} \\ m(\widehat{ACB}) &= x \end{aligned}$$

$x = ?$

- A) 30 B) 34 C) 36 D) 42 E) 46

8.

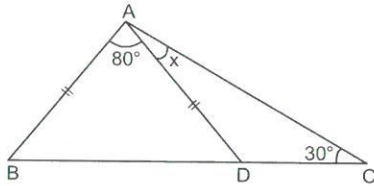


$$\begin{aligned} |AB| &= |AC| \\ |DC| &= |BC| \\ m(\widehat{ACD}) &= 12^\circ \\ m(\widehat{BAC}) &= x \end{aligned}$$

$x = ?$

- A) 34 B) 38 C) 46 D) 52 E) 62

9.

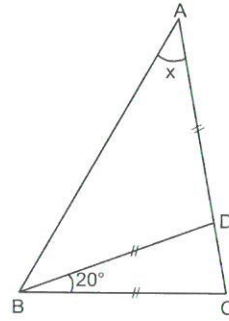


$$\begin{aligned} |AB| &= |AD| \\ |AC| &= |CD| \\ m(\widehat{BAD}) &= 80^\circ \\ m(\widehat{BCA}) &= 30^\circ \\ m(\widehat{DAC}) &= x \end{aligned}$$

$x = ?$

- A) 10 B) 15 C) 20 D) 25 E) 30

10.

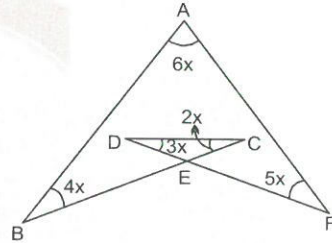


$$\begin{aligned} |AD| &= |DB| = |BC| \\ m(\widehat{DBC}) &= 20^\circ \\ m(\widehat{BAC}) &= x \end{aligned}$$

$x = ?$

- A) 50 B) 45 C) 40 D) 35 E) 30

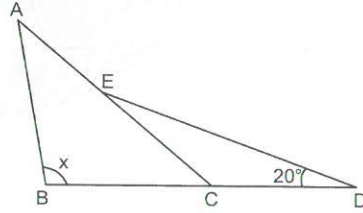
11.



$$\begin{aligned} [DF] \cap [CB] &= \{E\} \\ x &= ? \end{aligned}$$

- A) 9 B) 10 C) 12 D) 15 E) 18

12.



$$\begin{aligned} |AB| &= |BC| \\ |EC| &= |CD| \\ m(\widehat{EDC}) &= 20^\circ \\ m(\widehat{ABD}) &= x \end{aligned}$$

$x = ?$

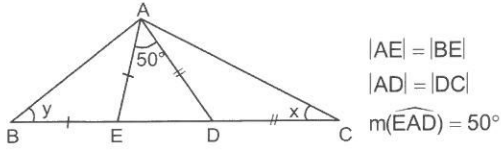
- A) 80 B) 85 C) 90 D) 95 E) 100

Cevap Anahtarı – Answer Sheet

1.D	2.A	3.A	4.E	5.B	6.B
7.C	8.D	9.C	10.C	11.A	12.E



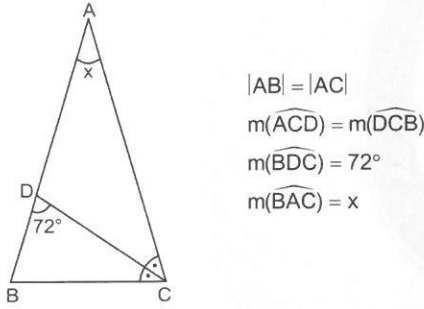
1.



$$x + y = ?$$

- A) 50 B) 55 C) 60 D) 65 E) 70

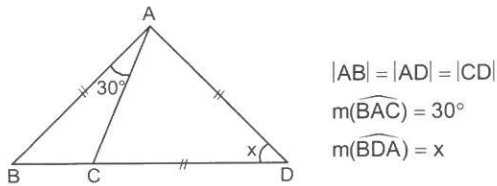
2.



$$x = ?$$

- A) 84 B) 72 C) 60 D) 48 E) 36

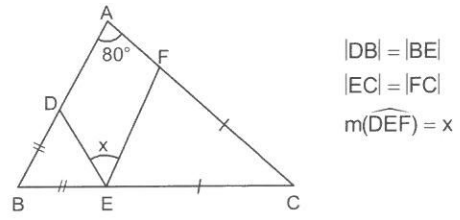
3.



$$x = ?$$

- A) 30 B) 35 C) 40 D) 45 E) 50

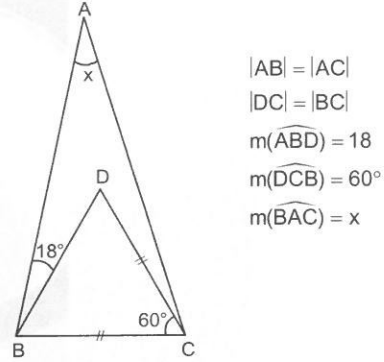
4.



$$x = ?$$

- A) 50 B) 55 C) 60 D) 65 E) 70

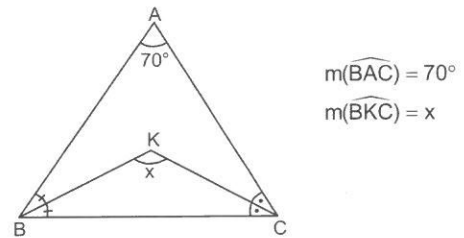
5.



$$x = ?$$

- A) 24 B) 26 C) 28 D) 32 E) 36

6.

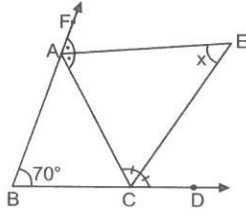


$$x = ?$$

- A) 110 B) 125 C) 135 D) 140 E) 160



7.



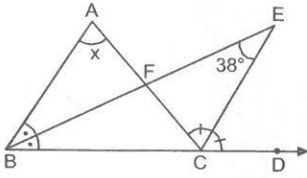
$$m(\widehat{ABC}) = 70^\circ$$

$$m(\widehat{AEC}) = x$$

$x = ?$

- A) 55 B) 65 C) 85 D) 105 E) 125

8.



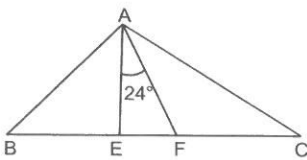
$$m(\widehat{BEC}) = 38^\circ$$

$$m(\widehat{BAC}) = x$$

$x = ?$

- A) 52 B) 68 C) 72 D) 76 E) 86

9.



$$|AE| = |BE|$$

$$|AF| = |FC|$$

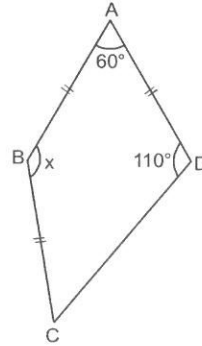
$$m(\widehat{EAF}) = 24^\circ$$

$$m(\widehat{BAC}) = x$$

$x = ?$

- A) 96 B) 100 C) 102 D) 106 E) 110

10.



$$|AB| = |AD| = |BC|$$

$$m(\widehat{BAD}) = 60^\circ$$

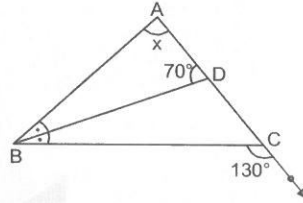
$$m(\widehat{ADC}) = 110^\circ$$

$$m(\widehat{ABC}) = x$$

$x = ?$

- A) 150 B) 140 C) 120 D) 90 E) 80

11.



$$m(\widehat{ADB}) = 70^\circ$$

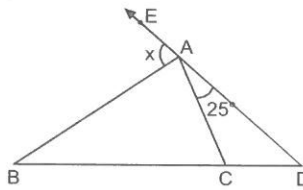
$$m(\widehat{BCE}) = 130^\circ$$

$$m(\widehat{BAD}) = x$$

$x = ?$

- A) 90 B) 80 C) 70 D) 60 E) 50

12.



$$|AB| = |AC| = |CD|$$

$$m(\widehat{CAD}) = 25^\circ$$

$$m(\widehat{BAE}) = x$$

$x = ?$

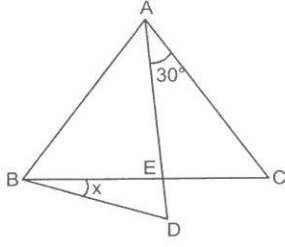
- A) 75 B) 80 C) 85 D) 90 E) 95

Cevap Anahtarı – Answer Sheet

1.D	2.E	3.C	4.A	5.A	6.B
7.A	8.D	9.C	10.B	11.A	12.A



1.

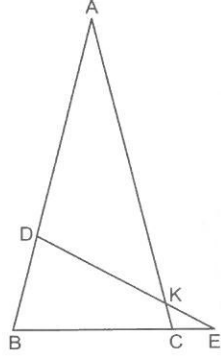


$$\begin{aligned} |AB| &= |AC| = |AD| \\ m(\widehat{DAC}) &= 30^\circ \\ m(\widehat{DBE}) &= x \end{aligned}$$

 $x = ?$

- A) 35 B) 30 C) 25 D) 20 E) 15

2.

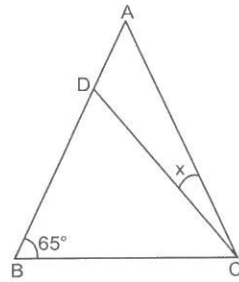


$$\begin{aligned} |AB| &= |AC| \\ |DE| &= |BE| \\ m(\widehat{AKE}) &= 132^\circ \\ m(\widehat{BED}) &= x \end{aligned}$$

 $x = ?$

- A) 48 B) 32 C) 30 D) 28 E) 24

3.

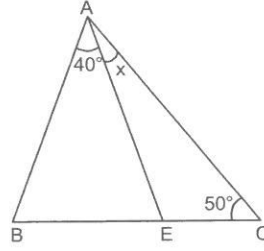


$$\begin{aligned} |AB| &= |AC| \\ |BC| &= |CD| \\ m(\widehat{ABC}) &= 65^\circ \\ m(\widehat{DCA}) &= x \end{aligned}$$

 $x = ?$

- A) 15 B) 20 C) 25 D) 30 E) 35

4.

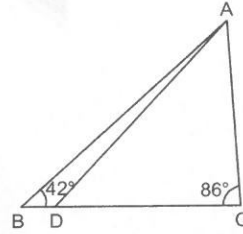


$$\begin{aligned} |AB| &= |AE| \\ m(\widehat{BAE}) &= 40^\circ \\ m(\widehat{ACB}) &= 50^\circ \\ m(\widehat{EAC}) &= x \end{aligned}$$

 $x = ?$

- A) 16 B) 18 C) 20 D) 25 E) 30

5.

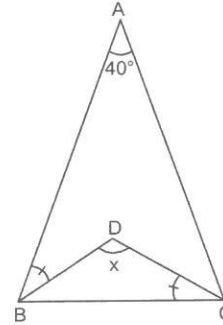


$$\begin{aligned} |AC| &= |DC| \\ m(\widehat{ACB}) &= 86^\circ \\ m(\widehat{ABC}) &= 42^\circ \\ m(\widehat{BAD}) &= x \end{aligned}$$

 $x = ?$

- A) 4 B) 5 C) 6 D) 7 E) 8

6.



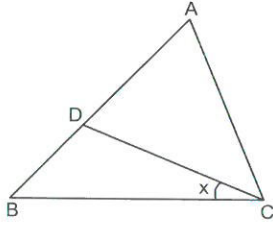
$$\begin{aligned} |AB| &= |AC| \\ m(\widehat{BAC}) &= 40^\circ \\ m(\widehat{ABD}) &= m(\widehat{DCB}) \\ m(\widehat{BDC}) &= x \end{aligned}$$

 $x = ?$

- A) 100 B) 105 C) 110 D) 120 E) 130



7.

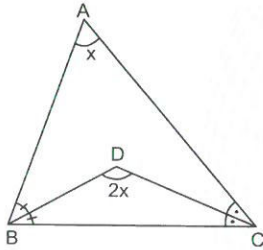


$$\begin{aligned} |AB| &= |BC| \\ |AC| &= |DC| \\ m(\widehat{DCA}) &= 42^\circ \\ m(\widehat{BCD}) &= x \end{aligned}$$

$x = ?$

- A) 24 B) 27 C) 32 D) 35 E) 38

8.

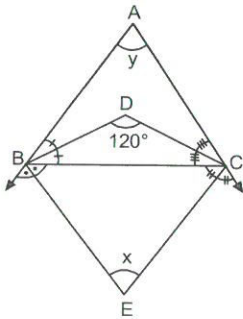


$$\begin{aligned} m(\widehat{BAC}) &= x \\ m(\widehat{BDC}) &= 2x \end{aligned}$$

$x = ?$

- A) 50 B) 60 C) 70 D) 80 E) 90

9.

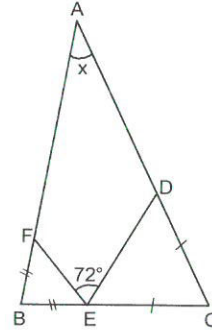


$$\begin{aligned} m(\widehat{BDC}) &= 120^\circ \\ m(\widehat{BEC}) &= x \\ m(\widehat{BAC}) &= y \end{aligned}$$

$x + y = ?$

- A) 60 B) 90 C) 120 D) 150 E) 180

10.

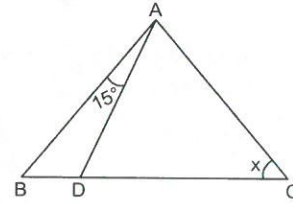


$$\begin{aligned} |BF| &= |BE| \\ |EC| &= |CD| \\ m(\widehat{FED}) &= 72^\circ \\ m(\widehat{BAC}) &= x \end{aligned}$$

$x = ?$

- A) 36 B) 40 C) 48 D) 52 E) 60

11.

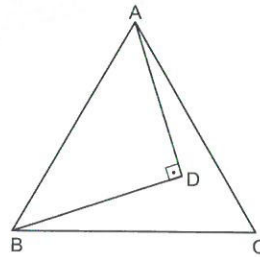


$$\begin{aligned} |AB| &= |AC| = |DC| \\ m(\widehat{BAD}) &= 15^\circ \\ m(\widehat{ACB}) &= x \end{aligned}$$

$x = ?$

- A) 35 B) 40 C) 45 D) 50 E) 55

12.



$$\begin{aligned} |AB| &= |BC| = |CA| \\ [AD] &\perp [DB] \\ m(\widehat{DAC}) &= 10 \\ m(\widehat{ABD}) &= x \end{aligned}$$

$x = ?$

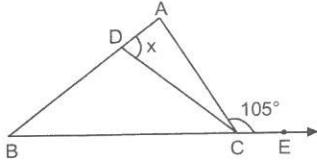
- A) 40 B) 35 C) 30 D) 25 E) 20

Cevap Anahtarı – Answer Sheet

1.E	2.D	3.A	4.C	5.B	6.C
7.B	8.B	9.C	10.A	11.D	12.A



1.



$$|AC| = |CD| = |BD|$$

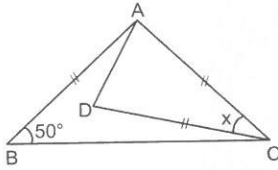
$$m(\widehat{ACE}) = 105^\circ$$

$$m(\widehat{ADC}) = x$$

 $x = ?$

- A) 40 B) 50 C) 60 D) 70 E) 80

2.



$$|AB| = |AC| = |DC|$$

$$m(\widehat{ABC}) = 50^\circ$$

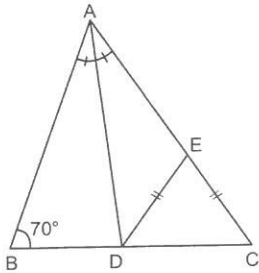
$$m(\widehat{ACD}) = x$$

$$m(\widehat{BAD}) = 5^\circ$$

 $x = ?$

- A) 40 B) 35 C) 30 D) 25 E) 20

3.



$$|DE| = |EC|$$

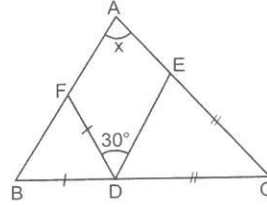
$$m(\widehat{ABC}) = 70^\circ$$

$$m(\widehat{ADE}) = 80^\circ$$

$$m(\widehat{ADC}) = ?$$

- A) 100 B) 110 C) 120 D) 130 E) 140

4.



$$|BF| = |FD|$$

$$|DE| = |DC|$$

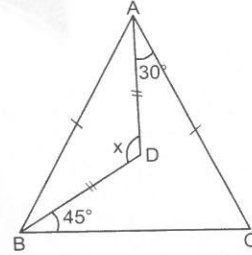
$$m(\widehat{FDE}) = 30^\circ$$

$$m(\widehat{BAC}) = x$$

 $x = ?$

- A) 75 B) 80 C) 85 D) 90 E) 95

5.



$$|AB| = |AC|$$

$$|AD| = |BD|$$

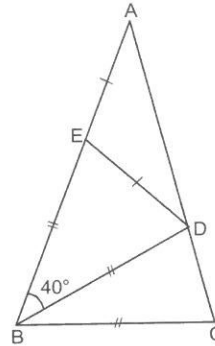
$$m(\widehat{DAC}) = 30^\circ$$

$$m(\widehat{DBC}) = 45^\circ$$

$$m(\widehat{BDA}) = ?$$

- A) 150 B) 145 C) 140 D) 135 E) 130

6.



$$|AE| = |ED|$$

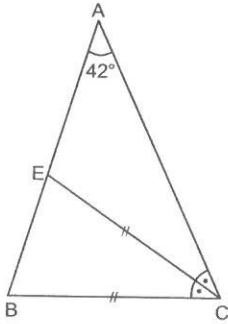
$$|BE| = |BD| = |BC|$$

$$m(\widehat{BCA}) = ?$$

- A) 45 B) 50 C) 60 D) 70 E) 75



7.



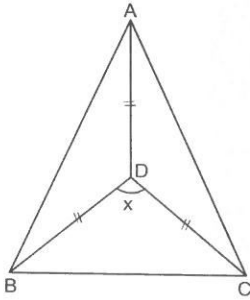
$$|CE| = |CB|$$

$$m(\widehat{BAC}) = 42^\circ$$

$$m(\widehat{ABC}) = ?$$

- A) 78 B) 76 C) 74 D) 72 E) 70

8.



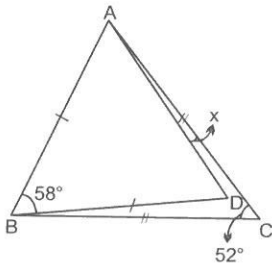
$$|AD| = |DB| = |DC|$$

$$m(\widehat{BAC}) = 50^\circ$$

$$m(\widehat{BDC}) = ?$$

- A) 95 B) 100 C) 105 D) 110 E) 120

9.



$$|BA| = |BD|$$

$$|CA| = |CB|$$

$$m(\widehat{ABD}) = 58^\circ$$

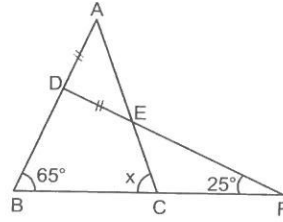
$$m(\widehat{ACB}) = 52^\circ$$

$$m(\widehat{DAC}) = x$$

$$x = ?$$

- A) 7 B) 6 C) 5 D) 4 E) 3

10.



$$m(\widehat{ABF}) = 65^\circ$$

$$m(\widehat{BFD}) = 25^\circ$$

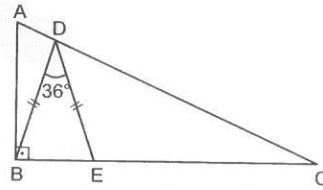
$$|AD| = |DE|$$

$$m(\widehat{BCA}) = x$$

$$x = ?$$

- A) 55 B) 60 C) 65 D) 70 E) 75

11.



$$[AB] \perp [BC]$$

$$|BD| = |DE|$$

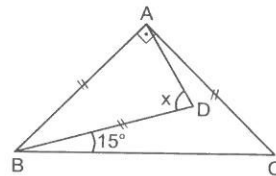
$$m(\widehat{ADB}) = 4 \cdot m(\widehat{ACB})$$

$$m(\widehat{BDE}) = 36^\circ$$

$$m(\widehat{BAC}) = ?$$

- A) 72 B) 70 C) 68 D) 66 E) 64

12.



$$[AB] \perp [AC]$$

$$|AB| = |AC| = |BD|$$

$$m(\widehat{CBD}) = 15^\circ$$

$$m(\widehat{ADB}) = x$$

$$x = ?$$

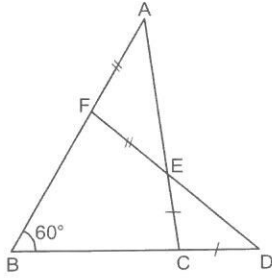
- A) 75 B) 72 C) 70 D) 66 E) 60

Cevap Anahtarı – Answer Sheet

1.D	2.C	3.B	4.A	5.C	6.E
7.C	8.B	9.E	10.D	11.D	12.A



1.

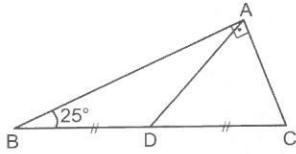


$$\begin{aligned} |AF| &= |FE| \\ |EC| &= |CD| \\ m(\widehat{ABC}) &= 60^\circ \end{aligned}$$

$$m(\widehat{BDF}) = ?$$

- A) 20 B) 25 C) 30 D) 35 E) 40

2.

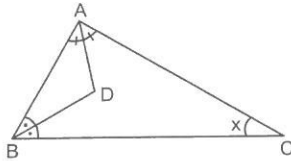


$$\begin{aligned} [BA] &\perp [AC] \\ |BD| &= |DC| \\ m(\widehat{ABC}) &= 25^\circ \end{aligned}$$

$$m(\widehat{ADC}) = ?$$

- A) 25 B) 25 C) 40 D) 50 E) 55

3.

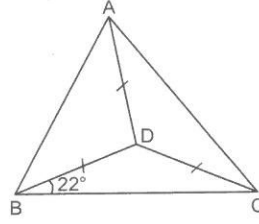


$$x = ?$$

- A) 30 B) 35 C) 40 D) 45 E) 50

$$\begin{aligned} m(\widehat{ADB}) &= 3x + 15 \\ m(\widehat{BCA}) &= x \end{aligned}$$

4.

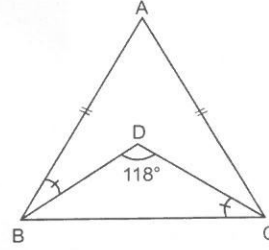


$$\begin{aligned} |AD| &= |DC| = |DB| \\ m(\widehat{DBC}) &= 22^\circ \end{aligned}$$

$$m(\widehat{BAC}) = ?$$

- A) 66 B) 68 C) 70 D) 72 E) 74

5.

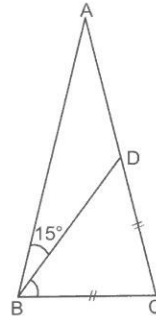


$$\begin{aligned} |AB| &= |AC| \\ m(\widehat{ABD}) &= m(\widehat{BCD}) \end{aligned}$$

$$m(\widehat{BAC}) = ?$$

- A) 64 B) 60 C) 56 D) 52 E) 48

6.



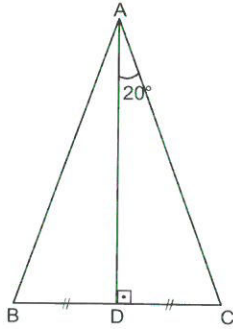
$$\begin{aligned} |AB| &= |AC| \\ m(\widehat{ABD}) &= 15^\circ \end{aligned}$$

$$m(\widehat{ACB}) = ?$$

- A) 55 B) 60 C) 65 D) 70 E) 75



7.

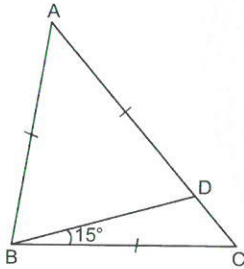


$$\begin{aligned} |BD| &= |DC| \\ [AD] &\perp [BC] \\ m(\widehat{DAC}) &= 20^\circ \end{aligned}$$

$$m(\widehat{BAD}) + m(\widehat{ACD}) = ?$$

- A) 20 B) 50 C) 70 D) 90 E) 110

8.

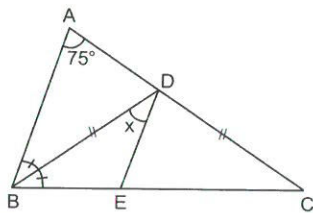


$$\begin{aligned} |AB| &= |AD| = |BC| \\ m(\widehat{DBC}) &= 15^\circ \end{aligned}$$

$$m(\widehat{ABD}) = ?$$

- A) 60 B) 65 C) 70 D) 75 E) 80

9.

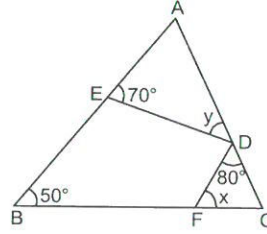


$$\begin{aligned} |DB| &= |DC| \\ [AB] &\parallel [DE] \\ m(\widehat{ABD}) &= m(\widehat{DBC}) \\ m(\widehat{BDE}) &= x \end{aligned}$$

$$x = ?$$

- A) 50 B) 45 C) 40 D) 35 E) 30

10.

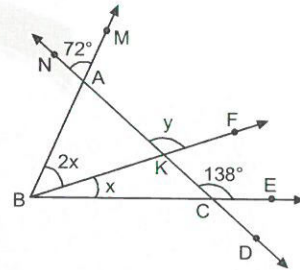


$$\begin{aligned} m(\widehat{AED}) &= 70^\circ \\ m(\widehat{ABC}) &= 50^\circ \\ m(\widehat{FDC}) &= 80^\circ \\ m(\widehat{ADE}) &= y \\ m(\widehat{DFC}) &= x \end{aligned}$$

$$x + y = ?$$

- A) 100 B) 95 C) 90 D) 85 E) 80

11.

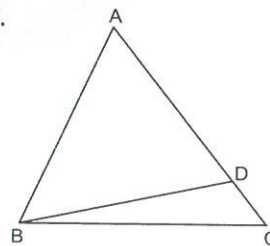


$$\begin{aligned} m(\widehat{MAN}) &= 72^\circ \\ m(\widehat{ECK}) &= 138^\circ \\ m(\widehat{AKF}) &= y \end{aligned}$$

$$y = ?$$

- A) 114 B) 116 C) 118 D) 120 E) 122

12.



$$\begin{aligned} |AB| &= |BD| \\ m(\widehat{ACB}) - m(\widehat{DBC}) &= 18^\circ \\ m(\widehat{BDA}) &= 64^\circ \end{aligned}$$

$$m(\widehat{ABC}) = ?$$

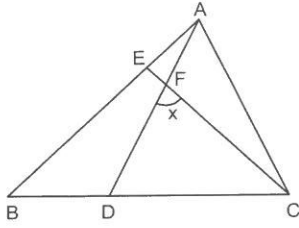
- A) 75 B) 72 C) 70 D) 69 E) 68

Cevap Anahtarı – Answer Sheet

1.E	2.D	3.A	4.B	5.C	6.D
7.D	8.B	9.D	10.E	11.B	12.A



1.

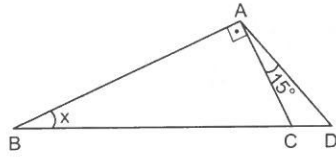


$$\begin{aligned} |AD| &= |AC| \\ |BE| &= |EC| \\ m(\widehat{BAC}) &= 112^\circ \\ m(\widehat{DFC}) &= x \end{aligned}$$

 $x = ?$

- A) 112 B) 106 C) 78 D) 68 E) 56

2.

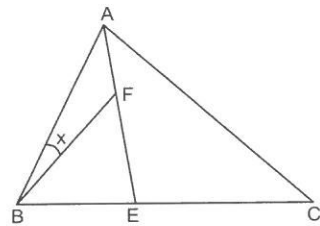


$$\begin{aligned} [BA] &\perp [AC] \\ |BC| &= 2 \cdot |AD| \\ m(\widehat{CAD}) &= 15^\circ \\ m(\widehat{ABC}) &= x \end{aligned}$$

 $x = ?$

- A) 10 B) 15 C) 25 D) 30 E) 45

3.

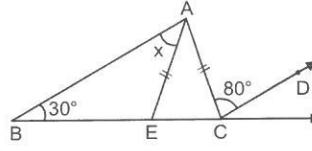


$$\begin{aligned} |AC| &= |CB| \\ |BE| &= |EF| \\ |CE| &= |EA| \\ m(\widehat{BFE}) &= 50^\circ \\ m(\widehat{ABF}) &= x \end{aligned}$$

 $x = ?$

- A) 15 B) 20 C) 25 D) 30 E) 35

4.

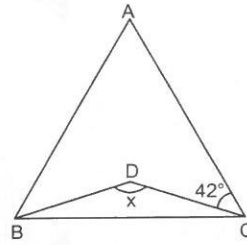


$$\begin{aligned} [AB] &\parallel [CD] \\ m(\widehat{ABC}) &= 30^\circ \\ m(\widehat{ACD}) &= 80^\circ \\ |AE| &= |AC| \end{aligned}$$

 $m(\widehat{BAE}) = ?$

- A) 20 B) 25 C) 30 D) 35 E) 40

5.

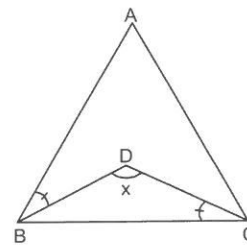


$$\begin{aligned} |AB| &= |AC| = |BC| \\ |BD| &= |DC| \\ m(\widehat{ACD}) &= 42^\circ \end{aligned}$$

 $m(\widehat{BDC}) = ?$

- A) 154 B) 150 C) 144 D) 140 E) 134

6.



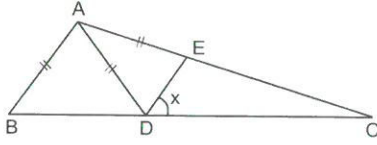
$$\begin{aligned} |AB| &= |AC| = |BC| \\ m(\widehat{ABD}) &= m(\widehat{DCB}) \\ m(\widehat{BDC}) &= x \end{aligned}$$

 $x = ?$

- A) 150 B) 130 C) 120 D) 110 E) 90



7.



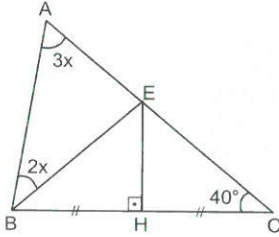
$$|AB| = |AD| = |AE|$$

$$m(\widehat{BAC}) = 110^\circ$$

$$m(\widehat{CDE}) = x = ?$$

- A) 40 B) 45 C) 50 D) 55 E) 60

8.



$$m(\widehat{BAC}) = 3x$$

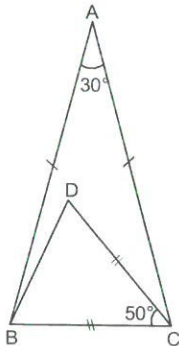
$$m(\widehat{ABE}) = 2x$$

$$m(\widehat{ACB}) = 40^\circ$$

$$m(\widehat{ABC}) = ?$$

- A) 80 B) 60 C) 40 D) 20 E) 10

9.



$$|AC| = |AB|$$

$$|DC| = |CB|$$

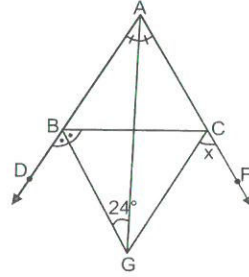
$$m(\widehat{DCB}) = 50^\circ$$

$$m(\widehat{BAC}) = 30^\circ$$

$$m(\widehat{ABD}) = ?$$

- A) 10 B) 15 C) 20 D) 25 E) 30

10.



$$m(\widehat{DBG}) = m(\widehat{GBC})$$

$$m(\widehat{BAG}) = m(\widehat{GAC})$$

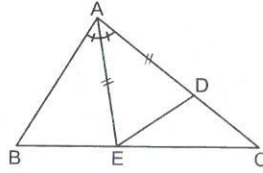
$$m(\widehat{BGA}) = 24^\circ$$

$$m(\widehat{GCF}) = x$$

$$x = ?$$

- A) 76 B) 72 C) 70 D) 66 E) 64

11.



$$|AD| = |AE|$$

$$m(\widehat{ABC}) = 60^\circ$$

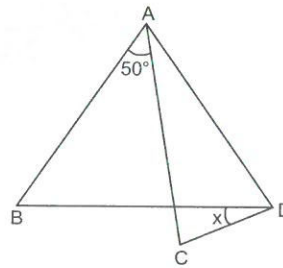
$$m(\widehat{ACB}) = 24^\circ$$

$$m(\widehat{BAE}) = m(\widehat{EAC})$$

$$m(\widehat{DEC}) = ?$$

- A) 36 B) 40 C) 42 D) 46 E) 52

12.



$$|AB| = |AC| = |AD|$$

$$m(\widehat{BAC}) = 50^\circ$$

$$m(\widehat{BDC}) = x$$

$$x = ?$$

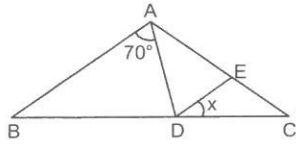
- A) 25 B) 30 C) 35 D) 40 E) 45

Cevap Anahtarı – Answer Sheet

1.A	2.C	3.B	4.E	5.C	6.C
7.D	8.A	9.A	10.D	11.C	12.A



1.

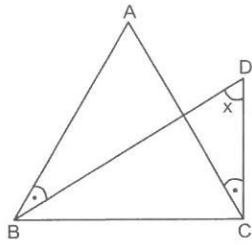


$$\begin{aligned} |AB| &= |AC| \\ |AD| &= |AE| \\ m(\widehat{BAD}) &= 70^\circ \end{aligned}$$

$$m(\widehat{EDG}) = x$$

- A) 30 B) 35 C) 40 D) 45 E) 50

2.

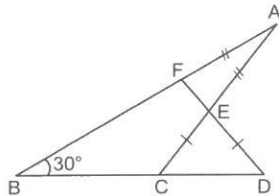


$$\begin{aligned} |AB| &= |BC| = |AC| \\ m(\widehat{DBA}) &= m(\widehat{DCA}) \\ m(\widehat{BDC}) &= x \end{aligned}$$

$$x = ?$$

- A) 55 B) 60 C) 65 D) 70 E) 75

3.

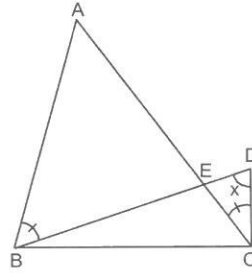


$$\begin{aligned} |AF| &= |AE| \\ |EC| &= |ED| \\ m(\widehat{ABC}) &= 30^\circ \\ m(\widehat{BAC}) &= x \end{aligned}$$

$$x = ?$$

- A) 40 B) 35 C) 30 D) 25 E) 20

4.

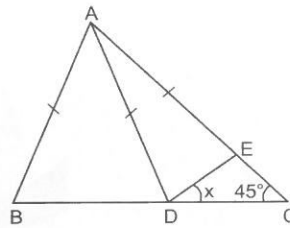


$$\begin{aligned} |AC| &= |BC| \\ m(\widehat{ACB}) &= 36^\circ \\ m(\widehat{BDC}) &= x \end{aligned}$$

$$x = ?$$

- A) 68 B) 70 C) 72 D) 74 E) 76

5.

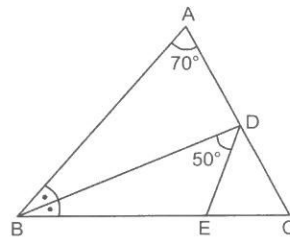


$$\begin{aligned} |AB| &= |AD| = |AE| \\ m(\widehat{BAD}) &= 50^\circ \\ m(\widehat{ACB}) &= 45^\circ \\ m(\widehat{CDE}) &= x \end{aligned}$$

$$x = ?$$

- A) 50 B) 45 C) 40 D) 35 E) 30

6.



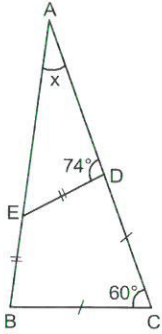
$$\begin{aligned} |DE| &= |EC| \\ m(\widehat{BAC}) &= 70^\circ \\ m(\widehat{BDE}) &= 50^\circ \end{aligned}$$

$$m(\widehat{BED}) = ?$$

- A) 120 B) 115 C) 110 D) 105 E) 100



7.

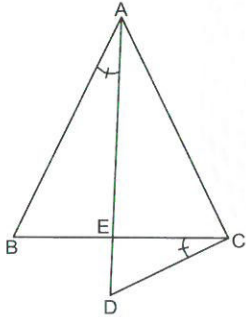


$$\begin{aligned} |DE| &= |ED| \\ |DC| &= |BC| \\ m(\widehat{ADE}) &= 74^\circ \\ m(\widehat{DCB}) &= 60^\circ \\ m(\widehat{EAD}) &= x \end{aligned}$$

x = ?

- A) 20 B) 18 C) 14 D) 12 E) 10

8.

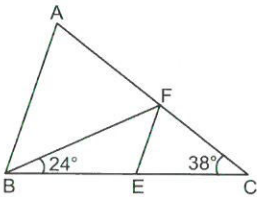


$$\begin{aligned} |AB| &= |AC| \\ m(\widehat{BAD}) &= m(\widehat{BCD}) \\ m(\widehat{BAC}) &= 52^\circ \\ m(\widehat{ADC}) &= x \end{aligned}$$

x = ?

- A) 66 B) 64 C) 62 D) 60 E) 58

9.

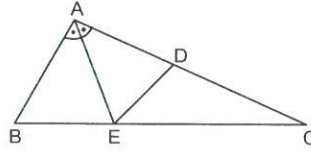


$$\begin{aligned} |AC| &= |CB| \\ [EF] &|| [AB] \\ m(\widehat{FBC}) &= 24^\circ \\ m(\widehat{FCB}) &= 38^\circ \\ m(\widehat{BFE}) &= x \end{aligned}$$

x = ?

- A) 47 B) 46 C) 45 D) 44 E) 43

10.

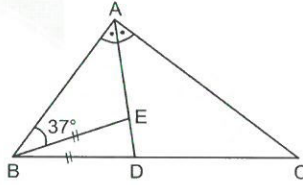


$$\begin{aligned} |AE| &= |AD| \\ m(\widehat{ACB}) &= 24^\circ \\ m(\widehat{ABC}) &= 60^\circ \\ m(\widehat{DEC}) &= x \end{aligned}$$

x = ?

- A) 36 B) 38 C) 40 D) 42 E) 44

11.

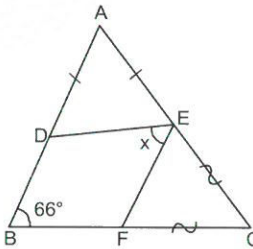


$$\begin{aligned} |BE| &= |BD| \\ m(\widehat{ABE}) &= 37^\circ \\ m(\widehat{ACB}) &= x \end{aligned}$$

x = ?

- A) 37 B) 46 C) 50 D) 52 E) 63

12.



$$\begin{aligned} |AE| &= |AD| \\ |EC| &= |FC| \\ m(\widehat{ABC}) &= 66^\circ \\ m(\widehat{DEF}) &= x \end{aligned}$$

x = ?

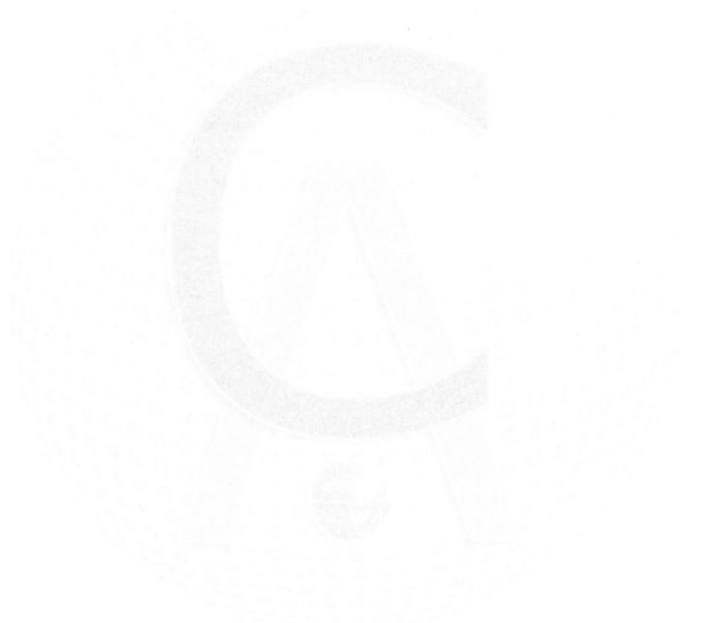
- A) 33 B) 45 C) 52 D) 57 E) 66

Cevap Anahtarı – Answer Sheet

1.B	2.B	3.E	4.C	5.D	6.E
7.C	8.B	9.A	10.D	11.A	12.D

3. BÖLÜM

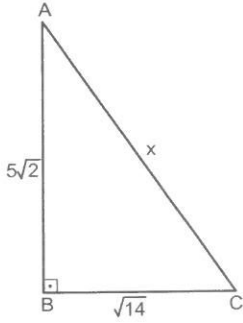
DİK ÜÇGENLER







1.



$$[AB] \perp [BC]$$

$$|AB| = 5\sqrt{2}$$

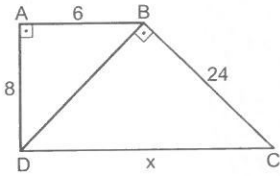
$$|BC| = \sqrt{14}$$

$$|AC| = x$$

 $x = ?$

- A) 6 B) $7\sqrt{2}$ C) 8 D) $8\sqrt{2}$ E) 9

2.



$$[DB] \perp [BC]$$

$$[AD] \perp [AB]$$

$$|AB| = 6$$

$$|AD| = 8$$

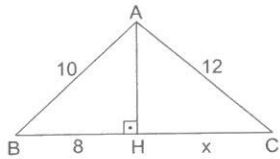
$$|BC| = 24$$

$$|DC| = x$$

 $x = ?$

- A) 26 B) 28 C) 30 D) 32 E) 34

3.



$$[AH] \perp [BC]$$

$$|AB| = 8$$

$$|AC| = 12$$

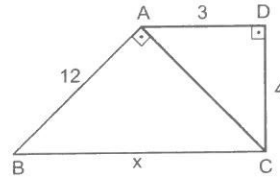
$$|BH| = 8$$

$$|HC| = x$$

 $x = ?$

- A) 6 B) $6\sqrt{2}$ C) $6\sqrt{3}$ D) 8 E) $10\sqrt{3}$

4.



$$[BA] \perp [AC]$$

$$[AD] \perp [DC]$$

$$|AB| = 12$$

$$|AD| = 3$$

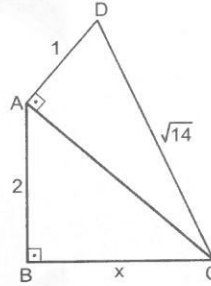
$$|DC| = 4$$

$$|BC| = x$$

 $x = ?$

- A) 5 B) 12 C) 13 D) 17 E) 25

5.



$$[AB] \perp [BC]$$

$$[AD] \perp [AC]$$

$$|AB| = 2$$

$$|AD| = 1$$

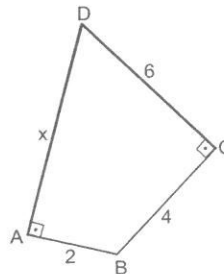
$$|DC| = \sqrt{14}$$

$$|BC| = x$$

 $x = ?$

- A) 2 B) 3 C) $3\sqrt{2}$ D) 4 E) $4\sqrt{3}$

6.



$$[DA] \perp [AB]$$

$$[DC] \perp [CB]$$

$$|AB| = 2$$

$$|BC| = 4$$

$$|DC| = 6$$

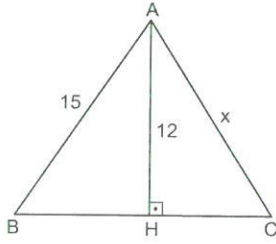
$$|AD| = x$$

 $x = ?$

- A) $3\sqrt{3}$ B) $4\sqrt{3}$ C) $5\sqrt{2}$ D) $6\sqrt{2}$ E) $6\sqrt{3}$



7.

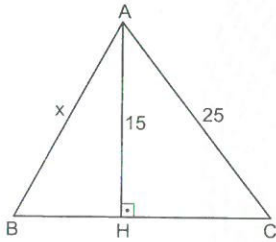


$$\begin{aligned} [AH] &\perp [BC] \\ |AB| &= 15 \\ |AH| &= 12 \\ |BC| &= 14 \\ |AC| &= x \end{aligned}$$

 $x = ?$

- A) 13 B) 15 C) 17 D) 18 E) 25

8.

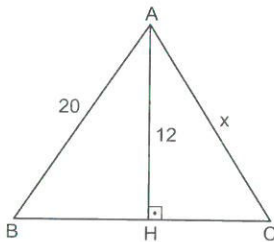


$$\begin{aligned} [AH] &\perp [BC] \\ |AH| &= 15 \\ |AC| &= 25 \\ |BC| &= 28 \\ |AB| &= x \end{aligned}$$

 $x = ?$

- A) 25 B) 24 C) 20 D) 17 E) 16

9.

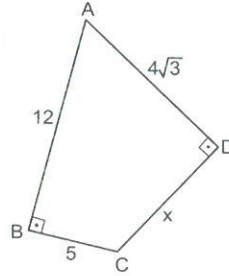


$$\begin{aligned} [AH] &\perp [BC] \\ |BC| &= 25 \\ |AB| &= 20 \\ |AH| &= 12 \\ |AC| &= x \end{aligned}$$

 $x = ?$

- A) 12 B) 15 C) 18 D) 20 E) 25

10.

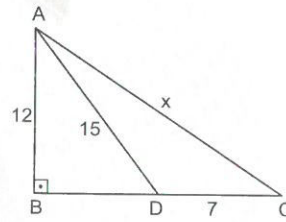


$$\begin{aligned} [AD] &\perp [BC] \\ [AB] &\perp [BC] \\ |AB| &= 12 \\ |AD| &= 4\sqrt{3} \\ |BC| &= 5 \\ |DC| &= x \end{aligned}$$

 $x = ?$

- A) 9 B) 10 C) 11 D) 12 E) 13

11.

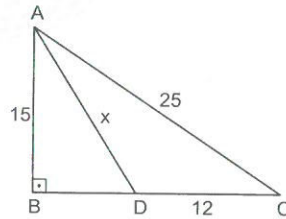


$$\begin{aligned} [AB] &\perp [BC] \\ |AB| &= 12 \\ |AD| &= 15 \\ |DC| &= 7 \\ |AC| &= x \end{aligned}$$

 $x = ?$

- A) 17 B) 20 C) 25 D) 26 E) 30

12.



$$\begin{aligned} [AB] &\perp [BC] \\ |AB| &= 15 \\ |AC| &= 25 \\ |DC| &= 12 \\ |AD| &= x \end{aligned}$$

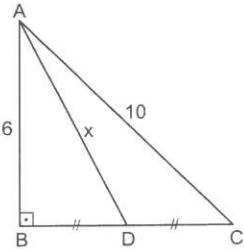
 $x = ?$

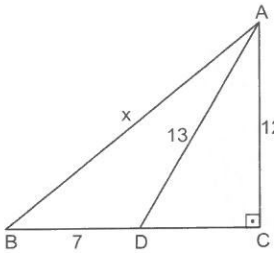
- A) 30 B) 26 C) 25 D) 20 E) 17

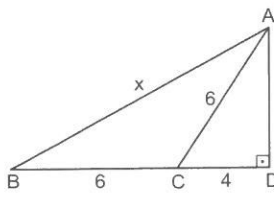
Cevap Anahtarı – Answer Sheet

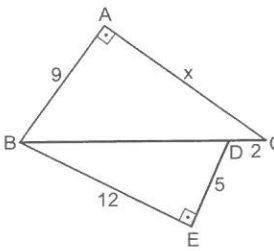
1.C	2.A	3.C	4.C	5.B	6.B
7.A	8.D	9.B	10.C	11.B	12.E

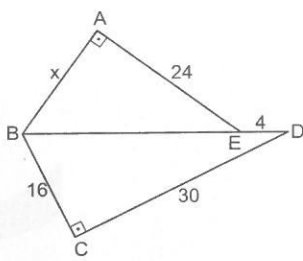


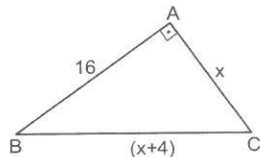
1.  $[AB] \perp [BC]$
 $|AB| = 6$
 $|AC| = 10$
 $|BD| = |DC|$
- $|AD| = ?$
- A) $\sqrt{13}$ B) $3\sqrt{2}$ C) $2\sqrt{13}$ D) $4\sqrt{2}$ E) 8

2.  $[AC] \perp [BC]$
 $|AC| = 12$
 $|AD| = 13$
 $|BD| = 7$
 $|AB| = x$
- $x = ?$
- A) 24 B) 20 C) $12\sqrt{3}$ D) $12\sqrt{2}$ E) 13

3.  $[AD] \perp [BD]$
 $|AC| = 6$
 $|BC| = 6$
 $|DC| = 4$
 $|AB| = x$
- $x = ?$
- A) $2\sqrt{30}$ B) $2\sqrt{29}$ C) $3\sqrt{30}$ D) 10 E) $6\sqrt{3}$

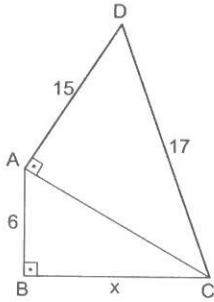
4.  $[AB] \perp [AC]$
 $[BE] \perp [ED]$
 $|AB| = 9$
 $|BE| = 12$
 $|ED| = 5$
 $|AC| = x$
 $|DC| = 2$
- $x = ?$
- A) 18 B) 15 C) 13 D) 12 E) 10

5.  $[BA] \perp [AE]$
 $[BC] \perp [CD]$
 $|AE| = 24$
 $|ED| = 4$
 $|BC| = 16$
 $|CD| = 30$
 $|AB| = x$
- $x = ?$
- A) 17 B) 18 C) 20 D) 24 E) 32

6.  $m(\hat{A}) = 90$
 $|AB| = 16$
 $|AC| = x$
 $|BC| = x + 4$
- $|BC| = ?$
- A) 24 B) 26 C) 28 D) 30 E) 34



7.

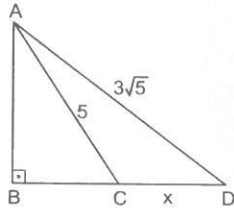


$$\begin{aligned} [DA] &\perp [AC] \\ [AB] &\perp [BC] \\ |AD| &= 15 \\ |DC| &= 17 \\ |AB| &= 6 \\ |BC| &= x \end{aligned}$$

 $x = ?$

- A) 10 B) 8 C) 6 D) $2\sqrt{7}$ E) $3\sqrt{3}$

8.

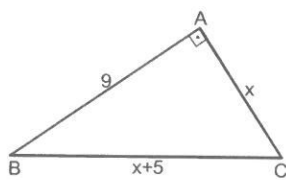


$$\begin{aligned} [AB] &\perp [BD] \\ |AC| &= 5 \\ |AD| &= 3\sqrt{5} \\ |BC| &= 2 \cdot |CD| \\ |CD| &= x \end{aligned}$$

 $x = ?$

- A) $4\sqrt{2}$ B) 4 C) 3 D) $\sqrt{5}$ E) 2

9.

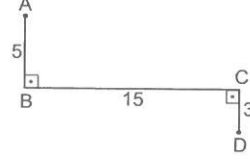


$$\begin{aligned} m(\hat{A}) &= 90^\circ \\ |AB| &= 9 \\ |AC| &= x \\ |BC| &= x + 5 \end{aligned}$$

 $|BC| = ?$

- A) 5,6 B) 5,8 C) 8,2 D) 10,6 E) 11,2

10.

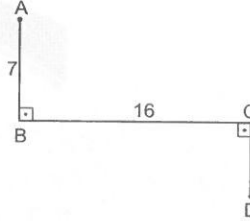


$$\begin{aligned} [AB] &\perp [BC] \\ [BC] &\perp [CD] \\ |AB| &= 5 \\ |BC| &= 15 \\ |CD| &= 3 \end{aligned}$$

 $\min|AD| = ?$

- A) 12 B) 13 C) 15 D) 17 E) 20

11.

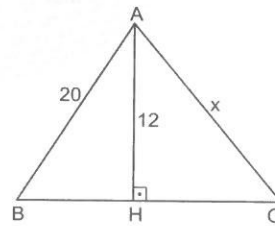


$$\begin{aligned} [AB] &\perp [BC] \\ [BC] &\perp [CD] \\ |AB| &= 7 \\ |BC| &= 16 \\ \min|AD| &= 20 \\ |CD| &= x \end{aligned}$$

 $x = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

12.



$$\begin{aligned} [AH] &\perp [BC] \\ |AB| &= 20 \\ |AH| &= 12 \\ |BC| &= 22 \\ |AC| &= x \end{aligned}$$

 $x = ?$

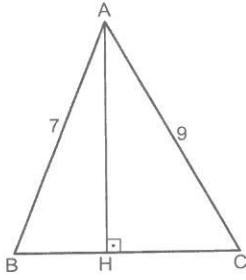
- A) 13 B) 15 C) $6\sqrt{5}$ D) $6\sqrt{2}$ E) $12\sqrt{5}$

Cevap Anahtarı – Answer Sheet

1.C	2.D	3.A	4.D	5.B	6.E
7.D	8.E	9.D	10.D	11.C	12.C



1.

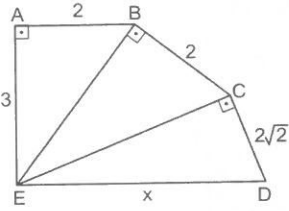


$$\begin{aligned}[AH] &\perp [BC] \\ |AB| &= 7 \\ |AC| &= 9 \\ |BC| &= 8\end{aligned}$$

$|BH| = ?$

- A) 1 B) 2 C) $\sqrt{5}$ D) $2\sqrt{3}$ E) $3\sqrt{2}$

2.

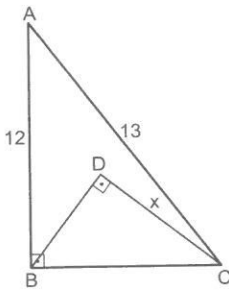


$$\begin{aligned}|AB| &= 2 \\ |AE| &= 3 \\ |BC| &= 2 \\ |CD| &= 2\sqrt{2} \\ |ED| &= x\end{aligned}$$

$x = ?$

- A) $2\sqrt{3}$ B) $3\sqrt{2}$ C) 5 D) 6 E) $6\sqrt{2}$

3.

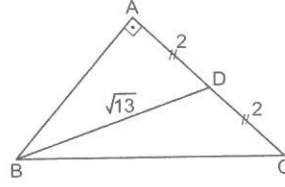


$$\begin{aligned}|AB| &= 12 \\ |AC| &= 13 \\ [BD] &\perp [DC] \\ |DC| &= 2|BD| \\ |DC| &= x\end{aligned}$$

$x = ?$

- A) $\sqrt{5}$ B) $\sqrt{3}$ C) 4 D) $2\sqrt{5}$ E) $3\sqrt{5}$

4.

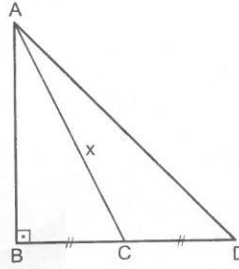


$$\begin{aligned}[AB] &\perp [AC] \\ |AD| &= 2 \\ |DC| &= 2 \\ |BD| &= \sqrt{13}\end{aligned}$$

$|BC| = ?$

- A) 13 B) 10 C) 8 D) 6 E) 5

5.

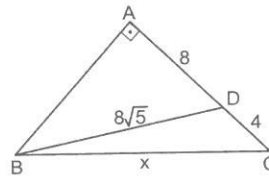


$$\begin{aligned}|BC| &= |CD| \\ |BD| &= 2|AB| \\ |AD| &= 6\sqrt{5} \\ |AC| &= x\end{aligned}$$

$x = ?$

- A) $5\sqrt{3}$ B) 6 C) $6\sqrt{2}$ D) $6\sqrt{3}$ E) 12

6.



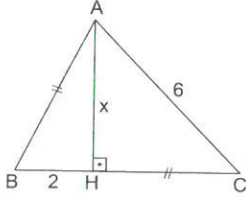
$$\begin{aligned}[AB] &\perp [AC] \\ |AD| &= 8 \\ |DC| &= 4 \\ |BD| &= 8\sqrt{5} \\ |BC| &= x\end{aligned}$$

$x = ?$

- A) 12 B) 16 C) 18 D) 20 E) 25



7.

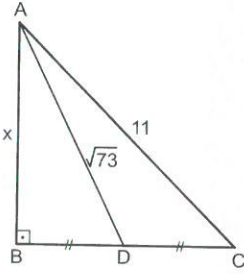


$$\begin{aligned} [AH] &\perp [BC] \\ |AB| &= |AC| \\ |BH| &= 2 \\ |AC| &= 6 \\ |AH| &= x \end{aligned}$$

 $x = ?$

- A) 5 B) 4 C) 3 D) 2 E) 1

8.

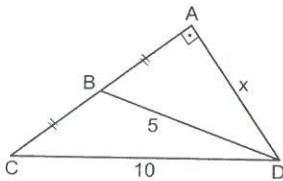


$$\begin{aligned} [AB] &\perp [AC] \\ |BD| &= |DC| \\ |AD| &= \sqrt{73} \\ |AC| &= 11 \\ |AB| &= x \end{aligned}$$

 $x = ?$

- A) 6 B)
- $5\sqrt{3}$
- C)
- $4\sqrt{3}$
- D) 5 E) 4

9.

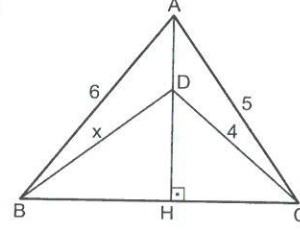


$$\begin{aligned} [AC] &\perp [AD] \\ |AB| &= |BC| \\ |BD| &= 5 \\ |DC| &= 10 \\ |AD| &= x \end{aligned}$$

 $x = ?$

- A) 4 B) 5 C)
- $5\sqrt{3}$
- D) 6 E)
- $6\sqrt{3}$

10.

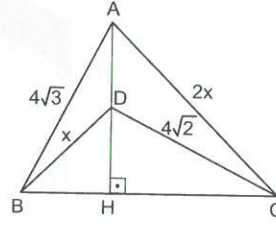


$$\begin{aligned} [AH] &\perp [BC] \\ |AB| &= 6 \\ |AC| &= 5 \\ |DC| &= 4 \\ |BD| &= x \end{aligned}$$

 $x = ?$

- A)
- $2\sqrt{3}$
- B) 3 C)
- $3\sqrt{3}$
- D) 4 E)
- $4\sqrt{2}$

11.

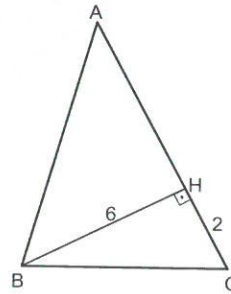


$$\begin{aligned} [AH] &\perp [BC] \\ |AB| &= 4\sqrt{3} \\ |AC| &= 2x \\ |BD| &= x \\ |DC| &= 4\sqrt{2} \\ |BD| &= x \end{aligned}$$

 $x = ?$

- A) 3 B)
- $3\sqrt{2}$
- C)
- $3\sqrt{3}$
- D) 4 E)
- $4\sqrt{3}$

12.



$$\begin{aligned} |AB| &= |AC| \\ [BH] &\perp [AC] \\ |HC| &= 2 \\ |BH| &= 6 \\ |AC| &= x \end{aligned}$$

 $x = ?$

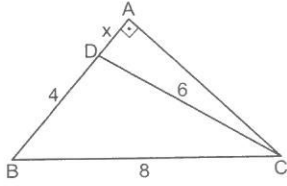
- A) 6 B) 7 C) 8 D) 9 E) 10

Cevap Anahtarı – Answer Sheet

1.B	2.C	3.D	4.E	5.C	6.D
7.B	8.E	9.B	10.C	11.D	12.E



1.

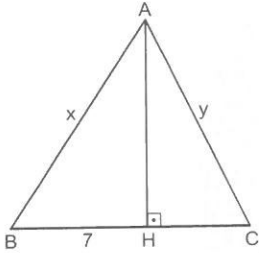


$$\begin{aligned} [AB] &\perp [AC] \\ |BC| &= 8 \\ |DC| &= 6 \\ |DB| &= 4 \\ |AD| &= x \end{aligned}$$

 $x = ?$

- A) $\frac{7}{2}$ B) 3 C) $\frac{5}{2}$ D) 2 E) $\frac{3}{2}$

2.

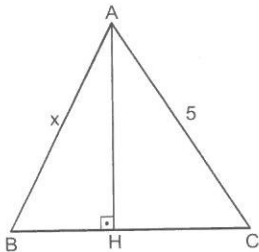


$$\begin{aligned} [AH] &\perp [BC] \\ |BH| &= 7 \\ |HC| &= 3 \\ |AB| &= x \\ |AC| &= y \end{aligned}$$

 $x^2 - y^2 = ?$

- A) 32 B) 36 C) 40 D) 44 E) 48

3.

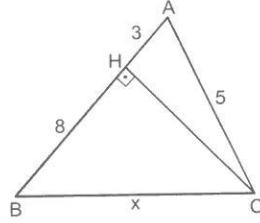


$$\begin{aligned} [AH] &\perp [BC] \\ |HC| &= 2, |BH| \\ |AC| &= 5 \\ |BC| &= 6 \\ |AB| &= x \end{aligned}$$

 $x = ?$

- A) $3\sqrt{2}$ B) $\sqrt{15}$ C) $\sqrt{14}$ D) $\sqrt{13}$ E) $2\sqrt{3}$

4.

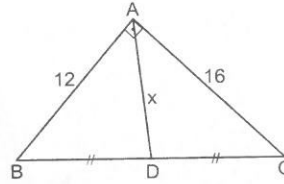


$$\begin{aligned} [CH] &\perp [AB] \\ |AH| &= 3 \\ |AC| &= 5 \\ |HB| &= 8 \\ |BC| &= x \end{aligned}$$

 $x = ?$

- A) 10 B) $8\sqrt{5}$ C) $4\sqrt{5}$ D) 15 E) 17

5.

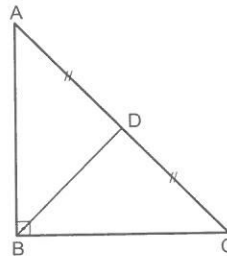


$$\begin{aligned} [AD] &\perp [BC] \\ |AB| &= 12 \\ |AC| &= 16 \\ |BD| &= |DC| \\ |AD| &= x \end{aligned}$$

 $x = ?$

- A) 6 B) 8 C) 10 D) 12 E) 14

6.



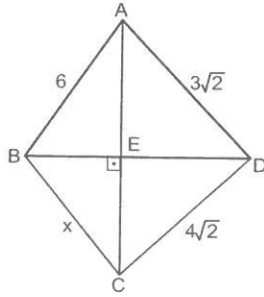
$$\begin{aligned} [BD] &\perp [AC] \\ |BD| &= 25 \\ |BC| &= 14 \\ |AB| &= x \end{aligned}$$

 $x = ?$

- A) 42 B) 48 C) 50 D) 56 E) 65



7.

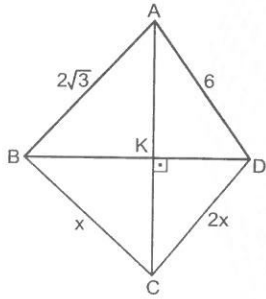


$$\begin{aligned} [AC] &\perp [BD] \\ |AB| &= 6 \\ |AD| &= 3\sqrt{2} \\ |CD| &= 4\sqrt{2} \\ |BC| &= x \end{aligned}$$

 $x = ?$

- A) 5 B) $5\sqrt{2}$ C) $5\sqrt{3}$ D) 6 E) $6\sqrt{2}$

8.

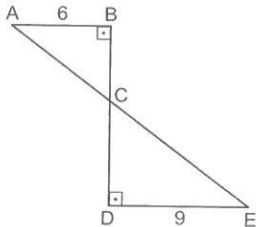


$$\begin{aligned} [AC] &\perp [BD] \\ |AD| &= 6 \\ |AB| &= 2\sqrt{3} \\ |BC| &= x \\ |DC| &= 2x \end{aligned}$$

 $|DC| = ?$

- A) 2 B) 4 C) $2\sqrt{2}$ D) $4\sqrt{2}$ E) $6\sqrt{2}$

9.

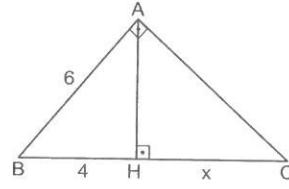


$$\begin{aligned} [AB] &\perp [BD] \\ |AB| &= 6 \\ |BD| &= 8 \\ |DE| &= 9 \\ |AE| &= x \end{aligned}$$

 $x = ?$

- A) 12 B) 13 C) 15 D) 17 E) 20

10.

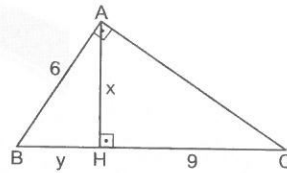


$$\begin{aligned} [AH] &\perp [BC] \\ [AB] &\perp [AC] \\ |AB| &= 6 \\ |BH| &= 4 \\ |HC| &= x \end{aligned}$$

 $x = ?$

- A) $3\sqrt{2}$ B) $4\sqrt{2}$ C) 5 D) $5\sqrt{2}$ E) 6

11.

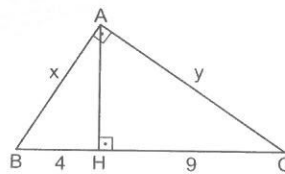


$$\begin{aligned} [AH] &\perp [BC] \\ [AB] &\perp [AC] \\ |AB| &= 6 \\ |HC| &= 9 \\ |AH| &= x \\ |BH| &= y \end{aligned}$$

 $x + y = ?$

- A) $3 + 3\sqrt{3}$ B) $6\sqrt{3}$ C) $4 + 2\sqrt{3}$
D) $3\sqrt{3} - 3$ E) $3\sqrt{3}$

12.



$$\begin{aligned} [AH] &\perp [BC] \\ [AB] &\perp [AC] \\ |BH| &= 4 \\ |HC| &= 9 \end{aligned}$$

 $x + y = ?$

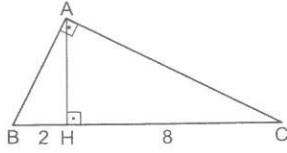
- A) $2\sqrt{13}$ B) $3\sqrt{13}$ C) $5\sqrt{13}$
D) $6\sqrt{13}$ E) $7\sqrt{13}$

Cevap Anahtarı – Answer Sheet

1.E	2.C	3.D	4.C	5.C	6.B
7.B	8.D	9.D	10.C	11.A	12.C



1.

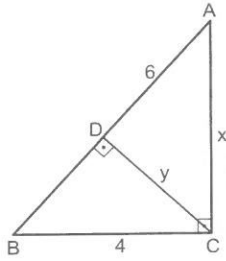


$$\begin{aligned} [AH] &\perp [BC] \\ [AB] &\perp [AC] \\ |BH| &= 2 \\ |HC| &= 8 \end{aligned}$$

$$\frac{|AC|}{|AH|} = ?$$

- A) 1 B) $\sqrt{3}$ C) 2 D) $\sqrt{5}$ E) 3

2.

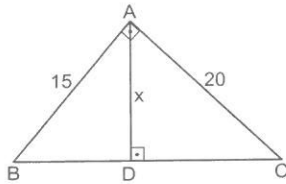


$$\begin{aligned} [AC] &\perp [BC] \\ [CD] &\perp [AB] \\ |AD| &= 6 \\ |BC| &= 4 \end{aligned}$$

$$|AC| + |DC| = ?$$

- A) $2\sqrt{3}$ B) $3\sqrt{3}$ C) $4\sqrt{3}$ D) $5\sqrt{3}$ E) $6\sqrt{3}$

3.

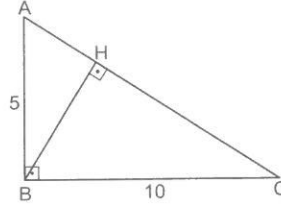


$$\begin{aligned} [AD] &\perp [BC] \\ [AB] &\perp [AC] \\ |AB| &= 15 \\ |AC| &= 20 \\ |AD| &= x \end{aligned}$$

$$x = ?$$

- A) 12 B) 13 C) 15 D) 16 E) 25

4.

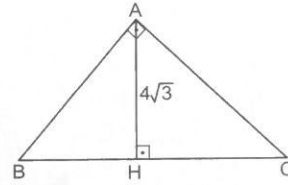


$$\begin{aligned} [AB] &\perp [BC] \\ [BH] &\perp [AC] \\ |AB| &= 5 \\ |BC| &= 10 \end{aligned}$$

$$|BH| = ?$$

- A) $\sqrt{5}$ B) $2\sqrt{5}$ C) $3\sqrt{5}$ D) $4\sqrt{5}$ E) $5\sqrt{5}$

5.

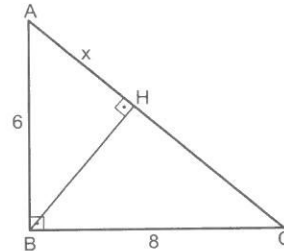


$$\begin{aligned} [AH] &\perp [BC] \\ [AB] &\perp [AC] \\ |BH|^2 + |HC|^2 &= 100 \\ |AH| &= 4\sqrt{3} \end{aligned}$$

$$|BC| = ?$$

- A) 8 B) 10 C) 12 D) 13 E) 14

6.



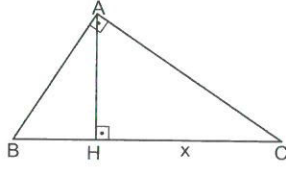
$$\begin{aligned} [AB] &\perp [BC] \\ [BH] &\perp [AC] \\ |AB| &= 6 \\ |BC| &= 8 \\ |AH| &= x \end{aligned}$$

$$x = ?$$

- A) 3,6 B) 4,2 C) 4,8 D) 5,6 E) 6,4



7.

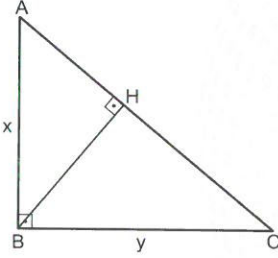


$$\begin{aligned} [AB] &\perp [AC] \\ [AH] &\perp [BC] \\ |BC| &= 5|BH| \\ |AH| &= 6 \\ |HC| &= x \end{aligned}$$

$$x = ?$$

- A) 3 B) 6 C) 9 D) 12 E) 16

8.

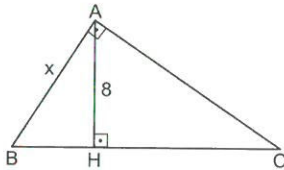


$$\begin{aligned} [AB] &\perp [BC] \\ [BH] &\perp [AC] \\ |AB| &= x \\ |BC| &= y \\ |AC| &= 10 \\ x + y &= 6\sqrt{5} \end{aligned}$$

$$|BH| = ?$$

- A) 2 B) 4 C) 6 D) 8 E) 10

9.

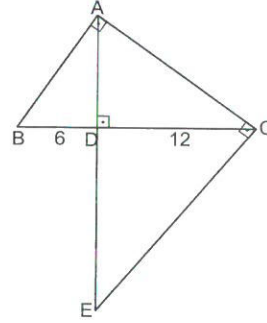


$$\begin{aligned} [AH] &\perp [BC] \\ [AB] &\perp [AC] \\ |AH| &= 8 \\ |BC| &= 20 \\ |BH| &< |HC| \\ |AB| &= x \end{aligned}$$

$$x = ?$$

- A) 2 B) 4 C) $4\sqrt{5}$ D) $8\sqrt{5}$ E) 12

10.

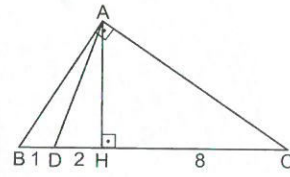


$$\begin{aligned} [AE] &\perp [BC] \\ [BA] &\perp [AC] \\ [AC] &\perp [CE] \\ |BD| &= 6 \\ |DC| &= 12 \end{aligned}$$

$$|DE| = ?$$

- A) $6\sqrt{2}$ B) $12\sqrt{2}$ C) 18 D) 24 E) $24\sqrt{2}$

11.

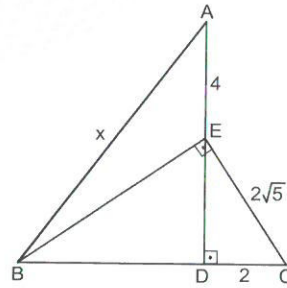


$$\begin{aligned} [DA] &\perp [AC] \\ [AH] &\perp [BC] \\ |BD| &= 1 \\ |DH| &= 2 \\ |HC| &= 8 \\ |AB| &= x \end{aligned}$$

$$x = ?$$

- A) 4 B) $4\sqrt{2}$ C) 5 D) $5\sqrt{2}$ E) 6

12.



$$\begin{aligned} [AD] &\perp [BC] \\ [BE] &\perp [EC] \\ |AE| &= 4 \\ |EC| &= 2\sqrt{5} \\ |DC| &= 2 \\ |AB| &= x \end{aligned}$$

$$x = ?$$

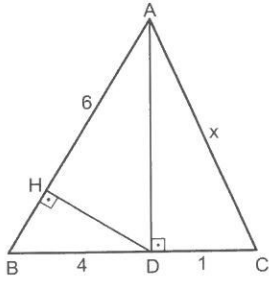
- A) $8\sqrt{2}$ B) 10 C) $9\sqrt{2}$ D) 9 E) 81

Cevap Anahtarı – Answer Sheet

1.D	2.E	3.A	4.B	5.E	6.A
7.D	8.B	9.C	10.B	11.C	12.A



1.

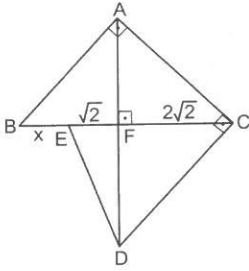


$[AD] \perp [BC]$
 $[DH] \perp [AB]$
 $|AH| = 6$
 $|BD| = 4$
 $|DC| = 1$
 $|AC| = x$

$x = ?$

- A) 7 B) 6 C) $4\sqrt{3}$ D) $2\sqrt{3}$ E) 12

2.

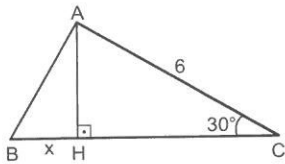


$[ED] \perp [DC]$
 $[AD] \perp [BC]$
 $[BA] \perp [AC]$
 $[AC] \perp [CD]$
 $|EF| = \sqrt{2}$
 $|FC| = 2\sqrt{2}$
 $|BE| = x$

$x = ?$

- A) 2 B) 3 C) $3\sqrt{2}$ D) $4\sqrt{2}$ E) 6

3.

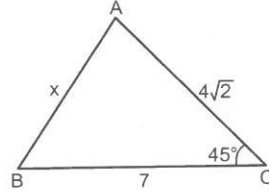


$[AH] \perp [BC]$
 $[AB] \perp [AC]$
 $|AC| = 6$
 $m(\widehat{ACB}) = 30^\circ$
 $|BH| = x$

$x = ?$

- A) $\sqrt{2}$ B) $\sqrt{3}$ C) $2\sqrt{3}$ D) 3 E) 6

4.

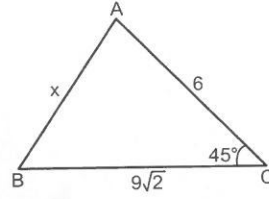


$|AC| = 4\sqrt{2}$
 $|BC| = 7$
 $m(\widehat{ACB}) = 45^\circ$
 $|AB| = x$

$x = ?$

- A) 7 B) 6 C) $4\sqrt{2}$ D) 5 E) 4

5.

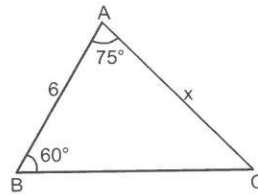


$m(\widehat{ACB}) = 45^\circ$
 $|AC| = 6$
 $|BC| = 9\sqrt{2}$
 $|AB| = x$

$x = ?$

- A) $3\sqrt{2}$ B) $3\sqrt{5}$ C) 6 D) 9 E) $3\sqrt{10}$

6.



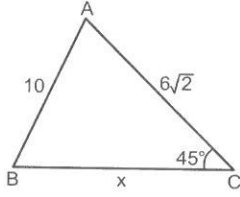
$m(\widehat{BAC}) = 75^\circ$
 $m(\widehat{ABC}) = 60^\circ$
 $|AB| = 6$
 $|AC| = x$

$x = ?$

- A) $3\sqrt{6}$ B) 4 C) $4\sqrt{2}$ D) 6 E) $6\sqrt{2}$



7.

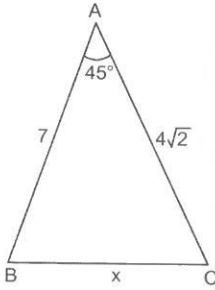


$$\begin{aligned} |AB| &= 10 \\ |AC| &= 6\sqrt{2} \\ m(\widehat{ACB}) &= 45^\circ \\ |BC| &= x \end{aligned}$$

 $x = ?$

- A) 14 B) 15 C) 16 D) 17 E) 18

8.

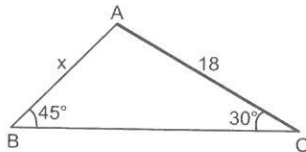


$$\begin{aligned} m(\widehat{BAC}) &= 45^\circ \\ |AB| &= 7 \\ |AC| &= 4\sqrt{2} \\ |BC| &= x \end{aligned}$$

 $x = ?$

- A) 7 B) 6 C) 5 D) 4 E) 3

9.

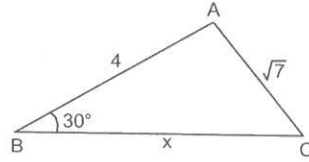


$$\begin{aligned} m(\widehat{ABC}) &= 45^\circ \\ m(\widehat{ACB}) &= 30^\circ \\ |AC| &= 18 \end{aligned}$$

 $x = ?$

- A)
- $6\sqrt{2}$
- B)
- $9\sqrt{2}$
- C)
- $6\sqrt{6}$
- D)
- $9\sqrt{3}$
- E) 18

10.

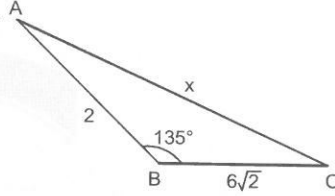


$$\begin{aligned} |AB| &= 4 \\ |AC| &= \sqrt{7} \\ m(\widehat{ABC}) &= 30^\circ \end{aligned}$$

 $x = ?$

- A) 2 B)
- $2\sqrt{3}$
- C) 3 D)
- $3\sqrt{3}$
- E) 6

11.

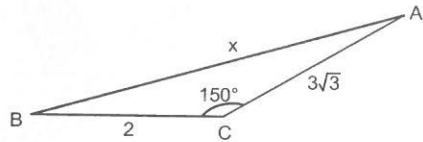


$$\begin{aligned} m(\widehat{ABC}) &= 135^\circ \\ |AB| &= 2 \\ |BC| &= 6\sqrt{2} \\ |AC| &= x \end{aligned}$$

 $x = ?$

- A) 7 B)
- $8\sqrt{2}$
- C) 10 D)
- $10\sqrt{2}$
- E) 13

12.



$$\begin{aligned} m(\widehat{BCA}) &= 150^\circ \\ |AC| &= 3\sqrt{3} \\ |BC| &= 2 \\ |AB| &= x \end{aligned}$$

 $x = ?$

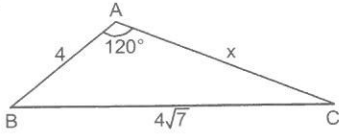
- A) 7 B)
- $6\sqrt{2}$
- C)
- $4\sqrt{3}$
- D) 5 E) 4

Cevap Anahtarı – Answer Sheet

1.A	2.C	3.B	4.D	5.E	6.A
7.A	8.C	9.B	10.D	11.C	12.A



1.

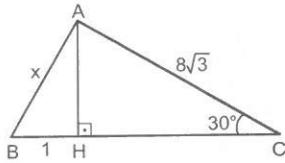


$$\begin{aligned} m(\widehat{BAC}) &= 120^\circ \\ |AB| &= 4 \\ |BC| &= 4\sqrt{7} \\ |AC| &= x \end{aligned}$$

$$x = ?$$

- A) $4\sqrt{3}$ B) 6 C) 8 D) $7\sqrt{2}$ E) 10

2.

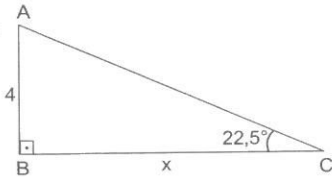


$$\begin{aligned} [AH] &\perp [BC] \\ |AC| &= 8\sqrt{3} \\ |BH| &= 1 \\ m(\widehat{ACB}) &= 30^\circ \end{aligned}$$

$$x = ?$$

- A) $4\sqrt{3}$ B) 7 C) 8 D) 10 E) $8\sqrt{2}$

3.

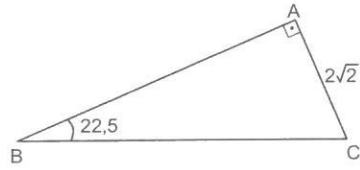


$$\begin{aligned} [AB] &\perp [BC] \\ m(\widehat{ACB}) &= 22,5 \\ |AB| &= 4 \\ |BC| &= x \end{aligned}$$

$$x = ?$$

- A) $4 + 4\sqrt{2}$ B) $8\sqrt{2}$ C) $4\sqrt{2}$
D) $8 + 4\sqrt{2}$ E) $8 + 8\sqrt{2}$

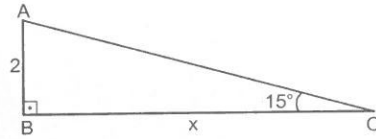
4.



$$\begin{aligned} [BA] &\perp [AC] \\ |AC| &= 2\sqrt{2} \\ m(\widehat{ABC}) &= 22,5^\circ \\ |AB| &= x \\ x &= ? \end{aligned}$$

- A) $4 + 4\sqrt{2}$ B) $4 + 2\sqrt{2}$ C) $2 + 4\sqrt{2}$
D) 4 E) $2 + 2\sqrt{2}$

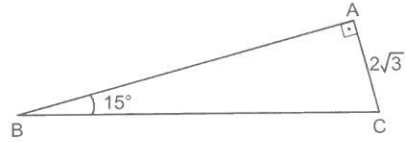
5.



$$\begin{aligned} [AB] &\perp [BC] \\ |AB| &= 2, \quad |BC| = x \\ x &= ? \end{aligned}$$

- A) $2 + 2\sqrt{3}$ B) $4 + 2\sqrt{3}$ C) $4 + 4\sqrt{3}$
D) $8\sqrt{3}$ E) $4\sqrt{6}$

6.

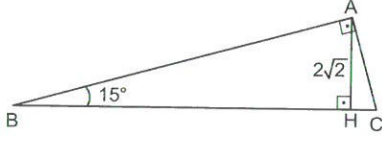


$$\begin{aligned} [BA] &\perp [AC] \\ m(\widehat{ABC}) &= 15^\circ \\ |AC| &= 2\sqrt{3}, \quad |AB| = x \\ x &= ? \end{aligned}$$

- A) $3 + 4\sqrt{3}$ B) $3 + 2\sqrt{3}$ C) $6 + 2\sqrt{3}$
D) $3\sqrt{3} + 3$ E) $6 + 4\sqrt{3}$



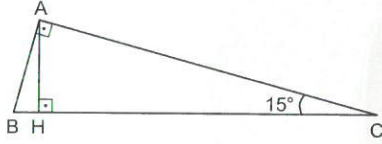
7.



$[AH] \perp [BC]$
 $m(\widehat{ABC}) = 15^\circ$
 $|AH| = 2\sqrt{2}$
 $|BC| = x$
 $x = ?$

- A) $4\sqrt{2}$ B) $6\sqrt{2}$ C) $8\sqrt{2}$ D) 4 E) 8

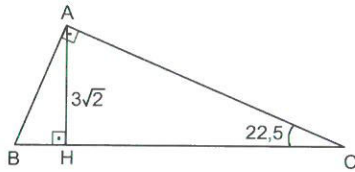
8.



$[AH] \perp [BC]$
 $m(\widehat{ACB}) = 15^\circ$
 $|BC| = 8$, $|AH| = x$
 $x = ?$

- A) 32 B) 16 C) 8 D) 4 E) 2

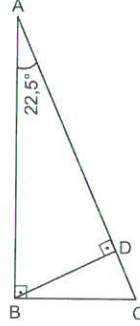
9.



$[AH] \perp [BC]$
 $m(\widehat{ACB}) = 22,5^\circ$
 $|AH| = 3\sqrt{2}$
 $|BC| = x$
 $x = ?$

- A) 6 B) $6\sqrt{2}$ C) 9 D) 12 E) $12\sqrt{2}$

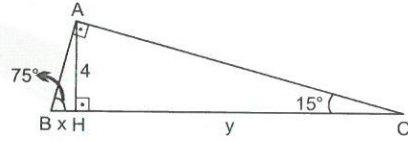
10.



$[BD] \perp [AC]$
 $[AB] \perp [BC]$
 $m(\widehat{BAC}) = 22,5^\circ$
 $|AC| = 6\sqrt{6}$
 $|BD| = x$

- $x = ?$
 A) $12\sqrt{3}$ B) 12 C) $6\sqrt{3}$ D) 6 E) $3\sqrt{3}$

11.

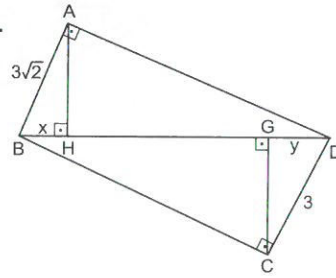


$[AH] \perp [BC]$
 $m(\widehat{ABC}) = 75^\circ$, $m(\widehat{ACB}) = 15^\circ$
 $|AH| = 4$, $|BH| = x$, $|HC| = y$

$$\frac{x \cdot y}{x + y} = ?$$

- A) $\frac{1}{2}$ B) $\frac{\sqrt{2}}{2}$ C) 1 D) 2 E) 4

12.



$[BA] \perp [AD]$
 $[AH] \perp [BD]$
 $[CG] \perp [BD]$
 $[BC] \perp [CD]$
 $|AB| = 3\sqrt{2}$
 $|CD| = 3$
 $|BH| = x$
 $|GD| = y$

$$\frac{y}{x} = ?$$

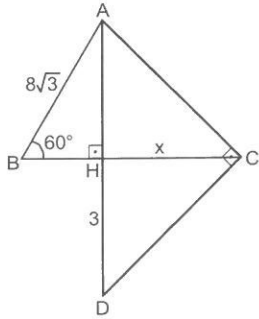
- A) $\frac{1}{2}$ B) $\frac{\sqrt{2}}{2}$ C) 1 D) $\sqrt{2}$ E) 2

Cevap Anahtarı – Answer Sheet

1.C	2.B	3.A	4.B	5.B	6.E
7.C	8.E	9.D	10.E	11.C	12.A



1.

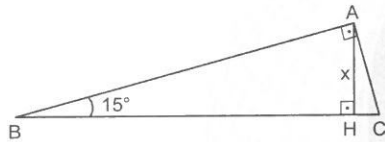


$$\begin{aligned} [AD] &\perp [BC] \\ [AC] &\perp [CD] \\ |AB| &= 8\sqrt{3} \\ |HD| &= 3 \\ |HC| &= x \end{aligned}$$

 $x = ?$

- A) $4\sqrt{3}$ B) 6 C) $6\sqrt{3}$ D) 8 E) 10

2.

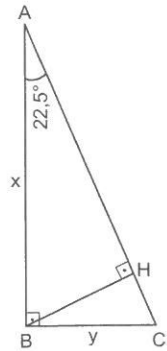


$$\begin{aligned} [BA] &\perp [AC] \\ [AH] &\perp [BC] \\ |AB| \cdot |AC| &= 8 \\ |AH| &= x \end{aligned}$$

 $x = ?$

- A) 8 B) 4 C) $2\sqrt{2}$ D) 2 E) $\sqrt{2}$

3.

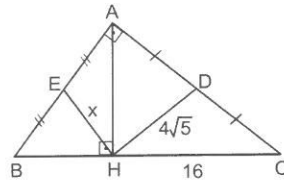


$$\begin{aligned} [AB] &\perp [BC] \\ [BH] &\perp [AC] \\ m(\widehat{BAC}) &= 22,5^\circ \\ |AC| &= 8 \\ |AB| &= x \\ |BC| &= y \end{aligned}$$

 $x \cdot y = ?$

- A) $4\sqrt{2}$ B) 8 C) $8\sqrt{2}$ D) 16 E) $16\sqrt{2}$

4.

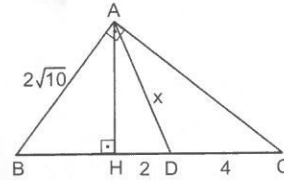


$$\begin{aligned} [BA] &\perp [AC] \\ [AH] &\perp [BC] \\ |HD| &= 4\sqrt{5} \\ |HC| &= 16 \\ |EH| &= x \end{aligned}$$

 $x = ?$

- A) 2 B) $2\sqrt{5}$ C) 4 D) 8 E) $8\sqrt{5}$

5.

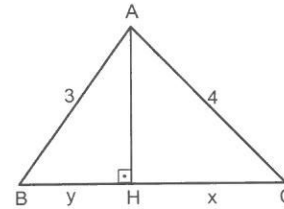


$$\begin{aligned} [AB] &\perp [AC] \\ [AH] &\perp [BC] \\ |AB| &= 2\sqrt{10} \\ |HD| &= 2 \\ |DC| &= 4 \\ |AD| &= x \end{aligned}$$

 $x = ?$

- A) 2 B) $2\sqrt{5}$ C) $2\sqrt{6}$ D) $2\sqrt{7}$ E) 4

6.



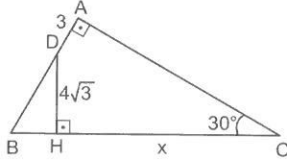
$$\begin{aligned} [AH] &\perp [BC] \\ |AB| &= 3 \\ |AC| &= 4 \\ |HC| &= x \\ |BH| &= y \end{aligned}$$

 $x^2 - y^2 = ?$

- A) 7 B) 5 C) 4 D) 2 E) 1



7.

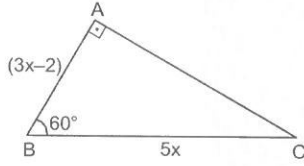


$$\begin{aligned} [BA] &\perp [AC] \\ [DH] &\perp [BC] \\ m(\widehat{ACB}) &= 30^\circ \\ |AD| &= 3 \\ |DH| &= 4\sqrt{3} \\ |HC| &= x \end{aligned}$$

 $x = ?$

- A) 18 B) 17 C) 16 D) 15 E) 14

8.

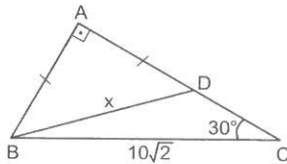


$$\begin{aligned} [BA] &\perp [AC] \\ m(\widehat{ABC}) &= 60^\circ \\ |AB| &= 3x - 2 \\ |BC| &= 5x \end{aligned}$$

 $|AC| = ?$

- A) 4 B) 5 C)
- $5\sqrt{3}$
- D) 10 E)
- $10\sqrt{3}$

9.

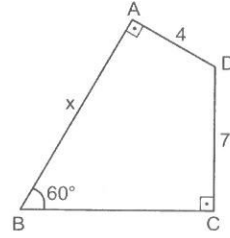


$$\begin{aligned} [BA] &\perp [AC] \\ |AD| &= |AB| \\ m(\widehat{BCA}) &= 30^\circ \\ |BC| &= 10\sqrt{2} \\ |BD| &= x \end{aligned}$$

 $x = ?$

- A)
- $5\sqrt{2}$
- B)
- $5\sqrt{6}$
- C) 10 D)
- $10\sqrt{2}$
- E)
- $10\sqrt{6}$

10.

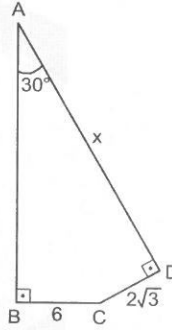


$$\begin{aligned} m(\widehat{ABC}) &= 60^\circ \\ m(\widehat{BAD}) &= 90^\circ \\ m(\widehat{BCD}) &= 90^\circ \\ |AD| &= 4 \\ |DC| &= 7 \\ |AB| &= x \end{aligned}$$

 $x = ?$

- A)
- $5\sqrt{3}$
- B)
- $6\sqrt{3}$
- C)
- $7\sqrt{3}$
- D)
- $8\sqrt{3}$
- E)
- $9\sqrt{3}$

11.

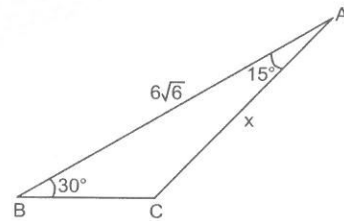


$$\begin{aligned} m(\widehat{BAC}) &= 30^\circ \\ m(\widehat{ABC}) &= 90^\circ \\ m(\widehat{ADC}) &= 90^\circ \\ |BC| &= 6 \\ |DC| &= 2\sqrt{3} \\ |AD| &= x \end{aligned}$$

 $x = ?$

- A) 22 B) 20 C) 19 D) 18 E) 17

12.



$$\begin{aligned} m(\widehat{ABC}) &= 30^\circ \\ m(\widehat{BAC}) &= 15^\circ \\ |AB| &= 6\sqrt{6} \\ |AC| &= x \end{aligned}$$

 $x = ?$

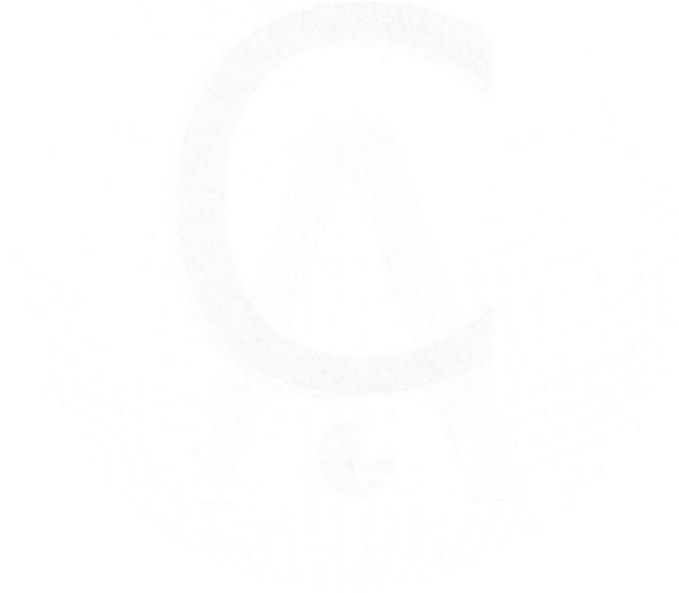
- A)
- $3\sqrt{3}$
- B)
- $3\sqrt{6}$
- C)
- $6\sqrt{3}$
- D)
- $6\sqrt{6}$
- E)
- $12\sqrt{3}$

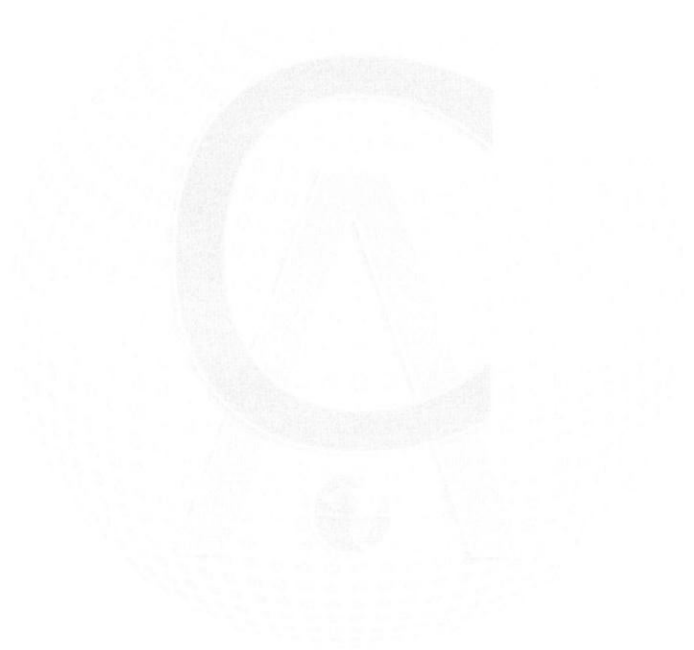
Cevap Anahtarı – Answer Sheet

1.B	2.E	3.E	4.B	5.D	6.A
7.A	8.E	9.C	10.B	11.D	12.C

4. BÖLÜM

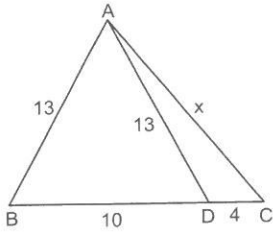
İKİZKENAR ÜÇGEN EŞKENAR ÜÇGEN







1.

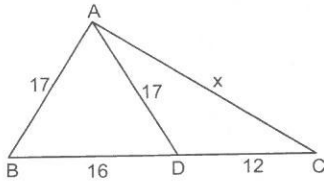


$$\begin{aligned} |AB| &= |AD| = 13 \\ |BD| &= 10 \\ |DC| &= 4 \\ |AC| &= x \end{aligned}$$

 $x = ?$

- A) 10 B) 12 C) 13 D) 15 E) 17

2.

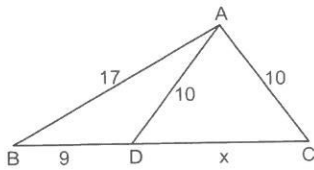


$$\begin{aligned} |AB| &= |AD| = 17 \\ |BD| &= 16 \\ |DC| &= 12 \\ |AC| &= x \end{aligned}$$

 $x = ?$

- A) 15 B) 17 C) 20 D) 25 E) 26

3.

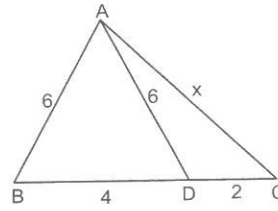


$$\begin{aligned} |AD| &= |AC| = 10 \\ |AB| &= 17 \\ |BD| &= 9 \\ |DC| &= x \end{aligned}$$

 $x = ?$

- A) 18 B) 17 C) 16 D) 14 E) 12

4.

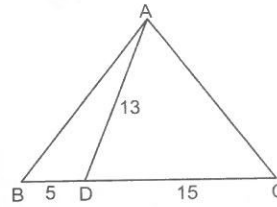


$$\begin{aligned} |AB| &= |AD| = 6 \\ |BD| &= 4 \\ |DC| &= 2 \\ |AC| &= x \end{aligned}$$

 $x = ?$

- A) $4\sqrt{2}$ B) 6 C) $4\sqrt{3}$ D) 8 E) $8\sqrt{3}$

5.

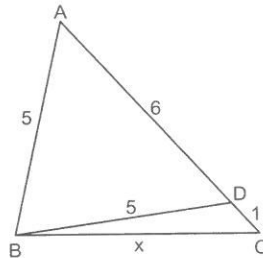


$$\begin{aligned} |AB| &= |AC| \\ |AD| &= 13 \\ |BD| &= 5 \\ |DC| &= 15 \\ |AC| &= x \end{aligned}$$

 $x = ?$

- A) $2\sqrt{61}$ B) $4\sqrt{17}$ C) $5\sqrt{13}$
D) $6\sqrt{15}$ E) $8\sqrt{5}$

6.



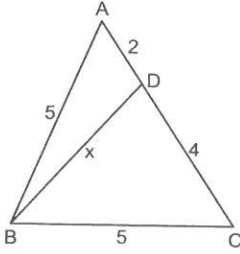
$$\begin{aligned} |AB| &= |BD| = 5 \\ |AD| &= 6 \\ |DC| &= 1 \\ |BC| &= x \end{aligned}$$

 $x = ?$

- A) $3\sqrt{2}$ B) $4\sqrt{2}$ C) 5 D) $5\sqrt{2}$ E) 6



7.

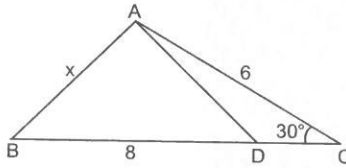


$$\begin{aligned} |AB| &= |BC| = 5 \\ |DC| &= 4 \\ |AD| &= 2 \\ |BD| &= x \end{aligned}$$

$$x = ?$$

- A) $\sqrt{21}$ B) $2\sqrt{5}$ C) $\sqrt{19}$ D) $3\sqrt{2}$ E) $\sqrt{17}$

8.

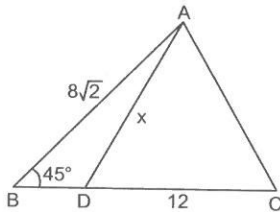


$$\begin{aligned} |AB| &= |AD| \\ |BD| &= 8 \\ |AC| &= 6 \\ m(\widehat{ACB}) &= 30^\circ \\ |AB| &= x \end{aligned}$$

$$x = ?$$

- A) 3 B) $3\sqrt{3}$ C) 4 D) $4\sqrt{3}$ E) 5

9.

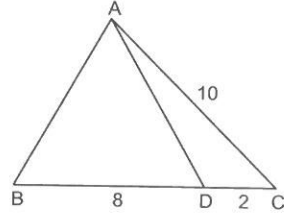


$$\begin{aligned} |AD| &= |AC| \\ |AB| &= 8\sqrt{2} \\ |DC| &= 12 \\ m(\widehat{ABC}) &= 45^\circ \\ |AD| &= x \end{aligned}$$

$$x = ?$$

- A) 10 B) $8\sqrt{2}$ C) 8 D) $6\sqrt{2}$ E) 6

10.

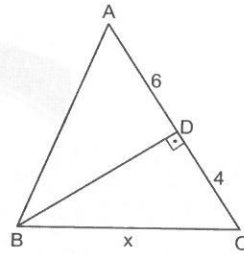


$$\begin{aligned} |AB| &= |AD| = x \\ |AC| &= 10 \\ |DC| &= 2 \\ |BD| &= 8 \end{aligned}$$

$$x = ?$$

- A) 4 B) 8 C) $4\sqrt{5}$ D) 10 E) $8\sqrt{5}$

11.

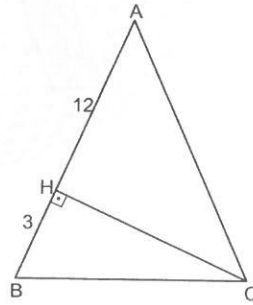


$$\begin{aligned} [BD] &\perp [AC] \\ |AB| &= |AC| \\ |AD| &= 6 \\ |DC| &= 4 \\ |BC| &= x \end{aligned}$$

$$x = ?$$

- A) 10 B) $4\sqrt{5}$ C) 6 D) $3\sqrt{5}$ E) 5

12.



$$\begin{aligned} |AB| &= |AC| \\ [AH] &\perp [BC] \\ |AH| &= 12 \\ |BH| &= 3 \\ |BC| &= x \end{aligned}$$

$$x = ?$$

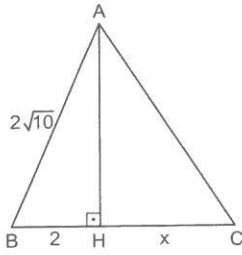
- A) $3\sqrt{10}$ B) 9 C) $8\sqrt{2}$ D) $6\sqrt{5}$ E) $8\sqrt{3}$

Cevap Anahtarı – Answer Sheet

1.D	2.D	3.E	4.C	5.A	6.B
7.E	8.E	9.A	10.C	11.B	12.A



1.

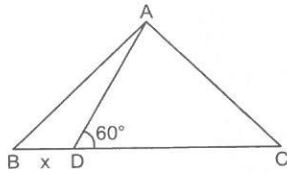


$$\begin{aligned}[AH] &\perp [BC] \\ |AC| &= |BC| \\ |AB| &= 2\sqrt{10} \\ |HC| &= x\end{aligned}$$

 $x = ?$

- A) $3\sqrt{5}$ B) $4\sqrt{2}$ C) 6 D) 8 E) 10

2.

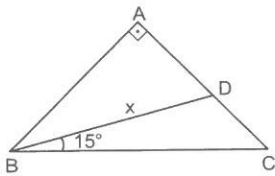


$$\begin{aligned}|AB| &= |AC| \\ |AD| &= 6 \\ |DC| &= 12 \\ |BD| &= x\end{aligned}$$

 $x = ?$

- A) 4 B) 5 C) 6 D) 7 E) 8

3.

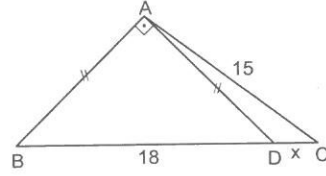


$$\begin{aligned}[BA] &\perp [AC] \\ |AB| &= |AC| \\ m(\widehat{DBC}) &= 15^\circ \\ |BC| &= 6\sqrt{2} \\ |BD| &= x\end{aligned}$$

 $x = ?$

- A) 3 B) $2\sqrt{3}$ C) 4 D) $4\sqrt{3}$ E) 6

4.

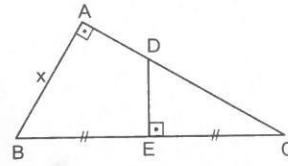


$$\begin{aligned}[BA] &\perp [AD] \\ |BD| &= 18 \\ |AC| &= 15 \\ |DC| &= x\end{aligned}$$

 $x = ?$

- A) 7 B) 6 C) 5 D) 4 E) 3

5.

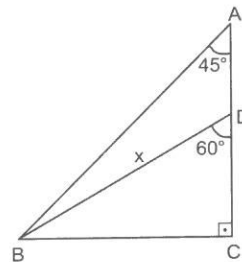


$$\begin{aligned}[BA] &\perp [AC] \\ [DE] &\perp [BC] \\ |BE| &= |EC| \\ |DC| &= 8 \\ |AD| &= 6 \\ |AB| &= x\end{aligned}$$

 $x = ?$

- A) $2\sqrt{7}$ B) 6 C) $4\sqrt{2}$ D) $3\sqrt{5}$ E) 10

6.



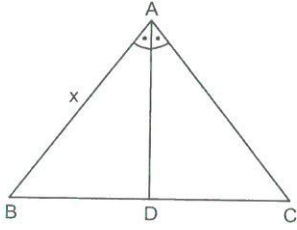
$$\begin{aligned}[AC] &\perp [BC] \\ m(\widehat{BAC}) &= 45^\circ \\ m(\widehat{BDC}) &= 60^\circ \\ |AB| &= 6\sqrt{6} \\ |BD| &= x\end{aligned}$$

 $x = ?$

- A) 6 B) $6\sqrt{3}$ C) 12 D) $12\sqrt{2}$ E) $12\sqrt{3}$



7.

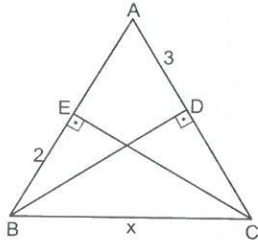


$$\begin{aligned} |BD| &= |DC| \\ |BC| &= 12 \\ |AD| &= 8 \\ |AB| &= x \end{aligned}$$

 $x = ?$

- A) 5 B) 6 C) 8 D) 10 E) 13

8.

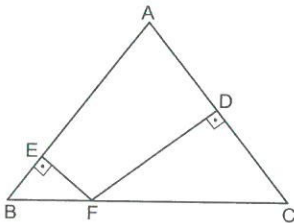


$$\begin{aligned} [AB] &\perp [CE] \\ [BD] &\perp [AC] \\ |AB| &= |AC| \\ |AD| &= 3 \\ |BE| &= 2 \\ |BC| &= x \end{aligned}$$

 $x = ?$

- A)
- $2\sqrt{3}$
- B)
- $2\sqrt{5}$
- C) 4 D) 5 E)
- $4\sqrt{5}$

9.

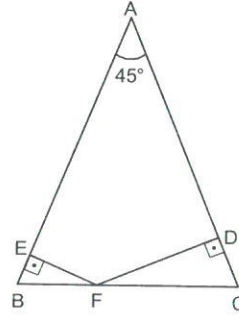


$$\begin{aligned} [FE] &\perp [AB] \\ [FD] &\perp [AC] \\ |AB| &= |AC| \\ |BC| &= 4\sqrt{5} \\ |EF| &= 2 \\ |DF| &= 6 \\ |AC| &= x \end{aligned}$$

 $x = ?$

- A) 6 B) 8 C) 10 D) 12 E) 14

10.

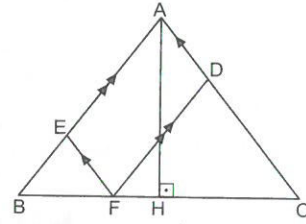


$$\begin{aligned} |AB| &= |AC| \\ [EF] &\perp [AB] \\ [FD] &\perp [AC] \\ |AB| &= 6\sqrt{6} \end{aligned}$$

$|EF| + |FD| = ?$

- A) 6 B)
- $6\sqrt{2}$
- C)
- $6\sqrt{3}$
- D) 12 E)
- $12\sqrt{3}$

11.

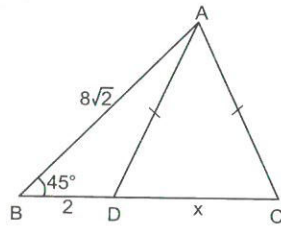


$$\begin{aligned} |AB| &= |AC| \\ [AB] &\parallel [DF] \\ [EF] &\parallel [AC] \\ |AH| &= 8 \\ |BC| &= 12 \\ |EF| &= 4 \\ |FD| &= x \end{aligned}$$

 $x = ?$

- A) 4 B) 5 C) 6 D) 7 E) 8

12.



$$\begin{aligned} |AD| &= |AC| \\ |AB| &= 8\sqrt{2} \\ m(\widehat{ABC}) &= 45^\circ \\ |BD| &= 2 \\ |DC| &= x \end{aligned}$$

 $x = ?$

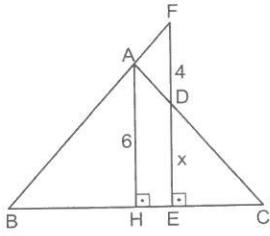
- A) 4 B) 6 C) 8 D) 10 E) 12

Cevap Anahtarı – Answer Sheet

1.D	2.C	3.D	4.E	5.A	6.C
7.D	8.B	9.C	10.C	11.C	12.E



1.

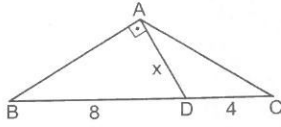


$$\begin{aligned} |AB| &= |AC| \\ [AH] &\perp [BC] \\ [FE] &\perp [BC] \\ |FD| &= 4 \\ |AH| &= 6 \\ |DE| &= x \end{aligned}$$

 $x = ?$

- A) 2 B) 3 C) 4 D) 5 E) 6

2.

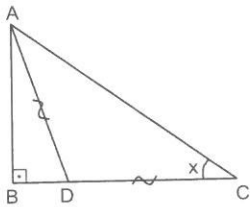


$$\begin{aligned} [BA] &\perp [AD] \\ |AB| &= |AC| \\ |BD| &= 8 \\ |DC| &= 4 \\ |AD| &= x \end{aligned}$$

 $x = ?$

- A) 4 B) $4\sqrt{2}$ C) $3\sqrt{5}$ D) 8 E) 12

3.

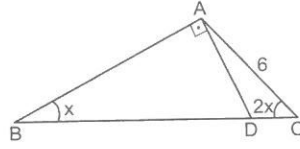


$$\begin{aligned} [AB] &\perp [BC] \\ |AD| &= |DA| \\ |AD| &= 2 \cdot |AB| \\ m(\widehat{ACB}) &= x \end{aligned}$$

 $x = ?$

- A) 15 B) 30 C) 45 D) 60 E) 75

4.

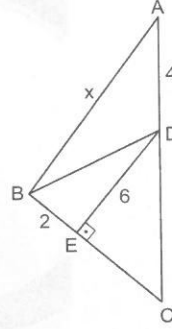


$$\begin{aligned} [BA] &\perp [AD] \\ m(\widehat{ACD}) &= 2 \cdot m(\widehat{ABC}) \\ |AC| &= 6 \end{aligned}$$

 $|BD| = ?$

- A) 3 B) 6 C) 9 D) 12 E) 15

5.

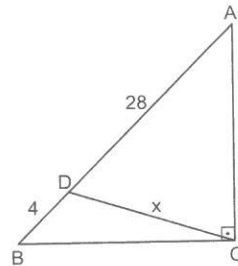


$$\begin{aligned} [DE] &\perp [BC] \\ |BC| &= |CD| \\ |DE| &= 6 \\ |AD| &= 4 \\ |BE| &= 2 \\ |AB| &= x \end{aligned}$$

 $x = ?$

- A) 6 B) $6\sqrt{2}$ C) 8 D) 10 E) $8\sqrt{2}$

6.



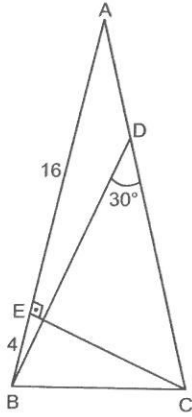
$$\begin{aligned} [CD] &\perp [AB] \\ |AC| &= |CB| \\ |AD| &= 28 \\ |BD| &= 4 \\ |CD| &= x \end{aligned}$$

 $x = ?$

- A) 12 B) 16 C) 20 D) 24 E) 26



7.

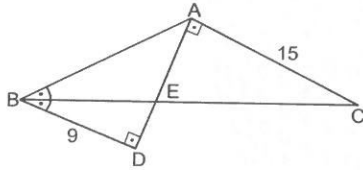


$[CE] \perp [AB]$
 $|AB| = |AC|$
 $|BE| = 4$
 $|AE| = 16$
 $m(\widehat{BDC}) = 30^\circ$
 $|BD| = x$

 $x = ?$

A) 12 B) 16 C) 20 D) 24 E) 32

8.

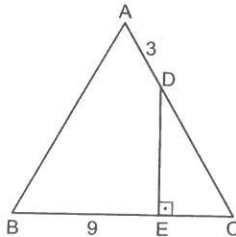


$[AD] \perp [BC]$
 $[DA] \perp [AC]$
 $|AC| = 15$
 $|BD| = 9$
 $|AD| = x$

 $x = ?$

A) 9 B) 10 C) 12 D) 15 E) 20

9.

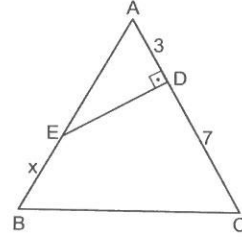


$|AB| = |AC| = |BC|$
 $[DE] \perp [BC]$
 $|AD| = 3$
 $|BE| = 9$

 $|AB| = ?$

A) 9 B) 12 C) 15 D) 18 E) 21

10.

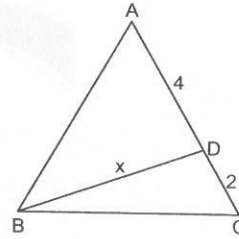


$|AB| = |AC| = |BC|$
 $|AD| = 3$
 $|DC| = 7$
 $|EB| = x$

 $x = x$

A) 3 B) 4 C) 5 D) 6 E) 7

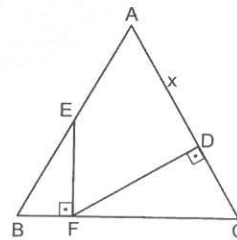
11.



$|AB| = |AC| = |BC|$
 $|AD| = 4$
 $|DC| = 2$
 $|BD| = x$

 $x = ?$ A) $2\sqrt{3}$ B) $3\sqrt{2}$ C) $2\sqrt{7}$ D) 4 E) $4\sqrt{3}$

12.



$|AB| = |AC| = |BC|$
 $[EF] \perp [BC]$
 $[FD] \perp [AC]$
 $|FC| = 6$
 $|EB| = 8$
 $|AD| = x$

 $x = ?$

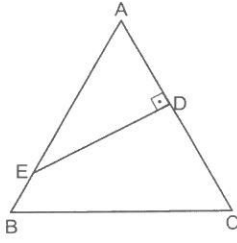
A) 8 B) 7 C) 6 D) 5 E) 4

Cevap Anahtarı – Answer Sheet

1.C	2.A	3.A	4.D	5.B	6.C
7.D	8.C	9.C	10.B	11.C	12.B



1.

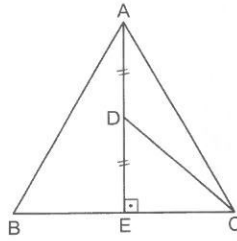


$$\begin{aligned} |AB| &= |AC| = |BC| \\ [ED] &\perp [AC] \\ |AD| &= 2, |EB| \end{aligned}$$

$$\frac{|DC|}{|BC|} = ?$$

- A) $\frac{3}{5}$ B) $\frac{2}{5}$ C) $\frac{2}{3}$ D) $\frac{3}{2}$ E) $\frac{5}{3}$

2.

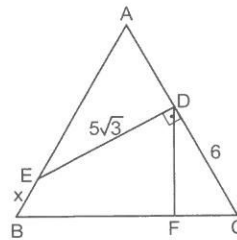


$$\begin{aligned} |AB| &= |AC| = |BC| \\ |AD| &= |DE| \\ [AE] &\perp [BC] \end{aligned}$$

$$\frac{|DC|}{|AB|} = ?$$

- A) $\frac{2\sqrt{2}}{3}$ B) $\frac{\sqrt{5}}{2}$ C) $\frac{\sqrt{7}}{2}$ D) $\frac{\sqrt{7}}{4}$ E) $\frac{\sqrt{5}}{4}$

3.

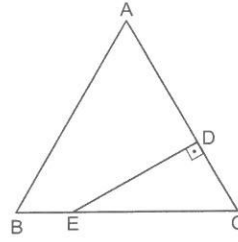


$$\begin{aligned} |AB| &= |AC| = |BC| \\ [DF] &\perp [BC] \\ [ED] &\perp [AC] \\ |ED| &= 5\sqrt{3} \\ |DC| &= 6 \\ |EB| &= x \end{aligned}$$

$$x = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

4.

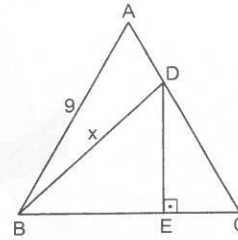


$$\begin{aligned} |AB| &= |AC| = |BC| \\ [ED] &\perp [AC] \\ \frac{|EC|}{|EB|} &= 3 \end{aligned}$$

$$\frac{|DC|}{|AD|} = ?$$

- A) $\frac{5}{3}$ B) $\frac{3}{2}$ C) 3 D) $\frac{2}{3}$ E) $\frac{3}{5}$

5.

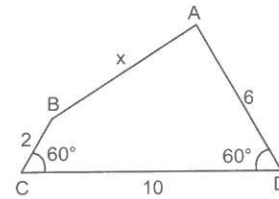


$$\begin{aligned} |AB| &= |AC| = |BC| \\ |EC| &= |AD| \\ |AB| &= 9 \\ |BD| &= x \end{aligned}$$

$$x = ?$$

- A) $2\sqrt{15}$ B) $3\sqrt{7}$ C) 8 D) $6\sqrt{2}$ E) 10

6.



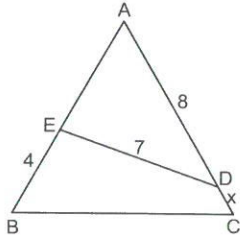
$$\begin{aligned} |BC| &= 2 \\ |AD| &= 6 \\ |CD| &= 10 \\ m(\widehat{BCD}) &= 60^\circ \\ m(\widehat{ADC}) &= 60^\circ \end{aligned}$$

$$x = ?$$

- A) 4 B) 8 C) $4\sqrt{3}$ D) $8\sqrt{3}$ E) 16



7.

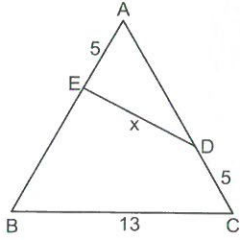


$$\begin{aligned} |AB| &= |AC| = |BC| \\ |AD| &= 8 \\ |ED| &= 7 \\ |EB| &= 4 \\ |DC| &= x \end{aligned}$$

 $x = ?$

- A) $\frac{1}{2}$ B) $\frac{3}{2}$ C) 1 D) 2 E) $\frac{5}{2}$

8.

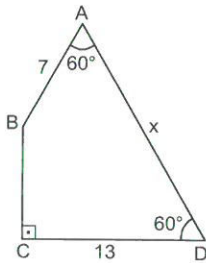


$$\begin{aligned} |AB| &= |AC| = |BC| = 13 \\ |AE| &= |DC| = 5 \\ |ED| &= x \end{aligned}$$

 $x = ?$

- A) 9 B) 8 C) 7 D) 6 E) 5

9.

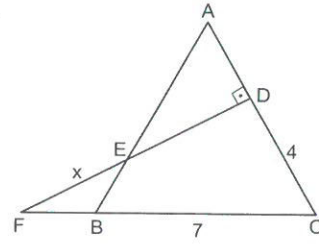


$$\begin{aligned} [BC] &\perp [CD] \\ m(\widehat{BAC}) &= 60^\circ \\ m(\widehat{ADC}) &= 60^\circ \\ |AB| &= 7 \\ |CD| &= 13 \\ |AD| &= x \end{aligned}$$

 $x = ?$

- A) 15 B) 16 C) 17 D) 18 E) 19

10.

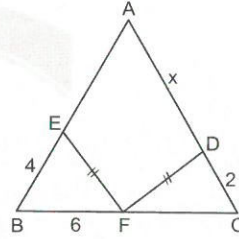


$$\begin{aligned} |AB| &= |AC| = |BC| \\ [FD] &\perp [AC] \\ |BC| &= 7 \\ |DC| &= 4 \\ |FE| &= x \end{aligned}$$

 $x = ?$

- A) 1 B) $\sqrt{3}$ C) 2 D) $2\sqrt{3}$ E) $4\sqrt{3}$

11.

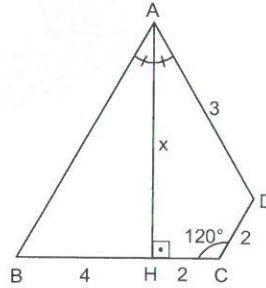


$$\begin{aligned} |AB| &= |AC| = |BC| \\ |EF| &= |FD| \\ |DC| &= 2 \\ |EB| &= 4 \\ |BF| &= 6 \\ |AD| &= x \end{aligned}$$

 $x = ?$

- A) 4 B) 6 C) 8 D) 10 E) 12

12.



$$\begin{aligned} [AH] &\perp [BC] \\ |AD| &= 3 \\ |DC| &= 2 \\ |HC| &= 2 \\ |BH| &= 4 \\ |AH| &= x \end{aligned}$$

 $x = ?$

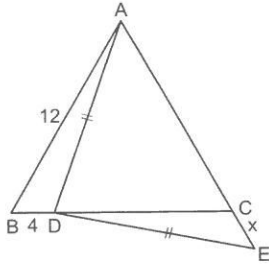
- A) 2 B) 3 C) $2\sqrt{3}$ D) $3\sqrt{2}$ E) 5

Cevap Anahtarı – Answer Sheet

1.A	2.D	3.A	4.E	5.B	6.C
7.C	8.C	9.E	10.B	11.D	12.B



1.

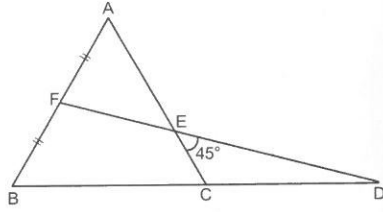


$$\begin{aligned} |AB| &= |AC| = |BC| \\ |AD| &= |DE| \\ |AB| &= 12 \\ |BD| &= 4 \\ |CE| &= x \end{aligned}$$

 $x = ?$

- A) 12 B) 10 C) 8 D) 6 E) 4

2.

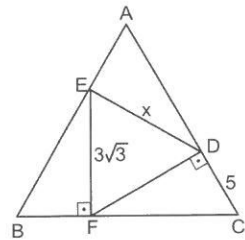


$$\begin{aligned} |AB| &= |AC| = |BC| \\ m(\widehat{CED}) &= 45^\circ \\ |CD| &= 5\sqrt{3} \end{aligned}$$

 $|AF| = ?$

- A) 5 B)
- $5\sqrt{3}$
- C) 10 D)
- $10\sqrt{3}$
- E) 20

3.

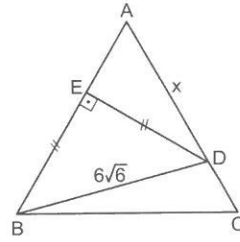


$$\begin{aligned} |AB| &= |AC| = |BC| \\ |EF| &\perp |BC| \\ |FD| &\perp |AC| \\ |EF| &= 3\sqrt{3} \\ |DC| &= 5 \\ |ED| &= x \end{aligned}$$

 $x = ?$

- A)
- $\sqrt{29}$
- B)
- $\sqrt{37}$
- C)
- $3\sqrt{5}$
- D)
- $\sqrt{55}$
- E)
- $\sqrt{57}$

4.

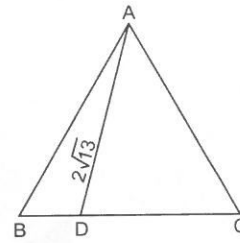


$$\begin{aligned} |AB| &= |AC| = |BC| \\ |ED| &= |BE| \\ |BD| &= 6\sqrt{6} \\ |AD| &= x \end{aligned}$$

 $x = ?$

- A)
- $3\sqrt{6}$
- B) 6 C)
- $6\sqrt{2}$
- D) 8 E) 12

5.

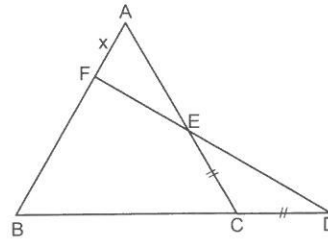


$$\begin{aligned} |AB| &= |AC| = |BC| \\ |ED| &= 2\sqrt{13} \\ |DC| &= 3|BD| \\ |AB| &= x \end{aligned}$$

 $x = ?$

- A) 4 B) 8 C)
- $6\sqrt{2}$
- D)
- $8\sqrt{3}$
- E) 16

6.



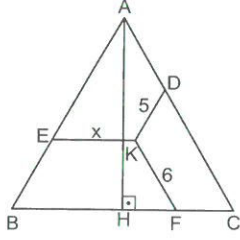
$$\begin{aligned} |AB| &= |AC| = |BC| \\ |AC| &= 12 \\ |EC| &= |CD| \\ |ED| &= 6\sqrt{3} \\ |AF| &= x \end{aligned}$$

 $x = ?$

- A) 2 B) 3 C)
- $3\sqrt{3}$
- D) 4 E)
- $4\sqrt{3}$



7.

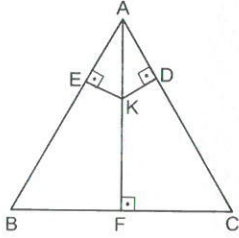


$$\begin{aligned} |AB| &= |AC| = |BC| \\ [EK] & \parallel [BC] \\ [KF] & \parallel [AC] \\ [KD] & \parallel [AB] \\ |KD| &= 5 \\ |KF| &= 6 \\ |AH| &= 8\sqrt{3} \\ |EK| &= x \end{aligned}$$

$$x = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

8.

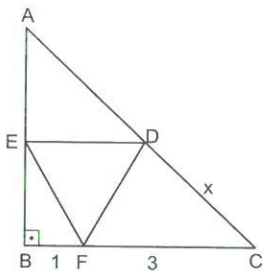


$$\begin{aligned} |AB| &= |AC| = |BC| = 8 \\ [KD] & \perp [AC] \\ [KF] & \perp [BC] \\ [KE] & \perp [AB] \end{aligned}$$

$$|KE| + |KD| + |KF| = ?$$

- A) 4 B) $4\sqrt{3}$ C) 8 D) $8\sqrt{3}$ E) 16

9.

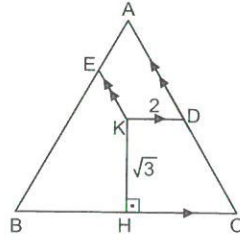


$$\begin{aligned} |ED| &= |EF| = |FD| \\ [AB] & \perp [BC] \\ |EB| &= \sqrt{3} \\ |BF| &= 1 \\ |FC| &= 3 \\ |DC| &= x \end{aligned}$$

$$x = ?$$

- A) $\sqrt{17}$ B) 4 C) $2\sqrt{3}$ D) 3 E) $\sqrt{7}$

10.

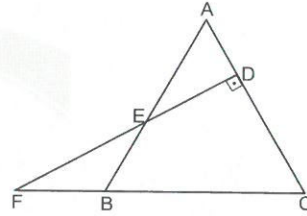


$$\begin{aligned} |AB| &= |AC| = |BC| \\ [EK] & \parallel [AC] \\ [KD] & \parallel [BC] \\ |EK| &= 2 \\ |KD| &= 2 \\ |KH| &= \sqrt{3} \end{aligned}$$

$$|AB| + |BC| = ?$$

- A) 4 B) 6 C) 8 D) 10 E) 12

11.

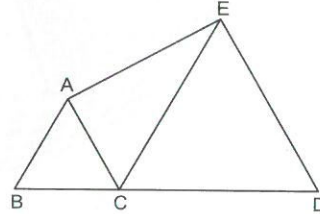


$$\begin{aligned} [FD] & \perp [AC] \\ |AB| &= |AC| = |BC| \\ |AE| &= |DC| \\ |EB| &= 4 \end{aligned}$$

$$|FD| = ?$$

- A) 4 B) $4\sqrt{3}$ C) 8 D) $8\sqrt{3}$ E) 16

12.



$$\begin{aligned} |AB| &= |AC| = |BC| \\ |CE| &= |CD| = |DE| \\ |AE| &= 4\sqrt{3} \\ |CD| &= 2 \cdot |BC| \\ |DC| + |AC| &= ? \end{aligned}$$

- A) 4 B) $4\sqrt{3}$ C) 8 D) $8\sqrt{3}$ E) 12

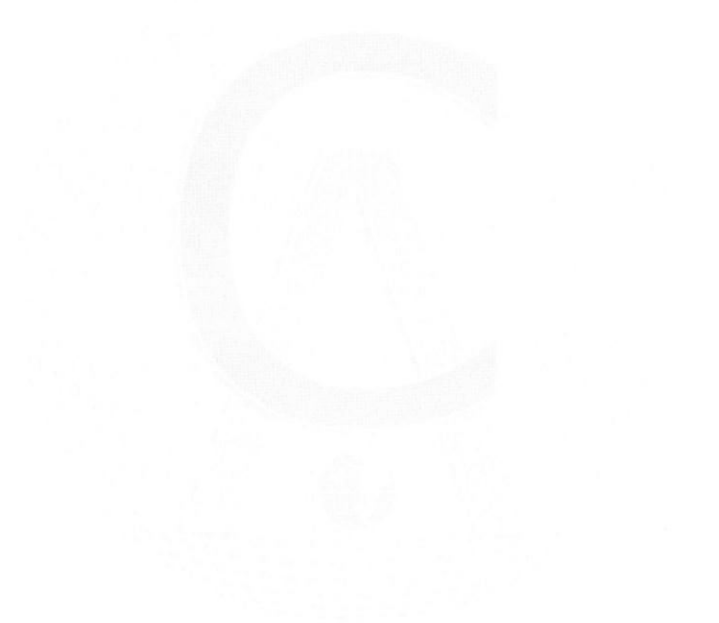
Cevap Anahtarı – Answer Sheet

1.E	2.A	3.E	4.E	5.B	6.B
7.A	8.B	9.E	10.E	11.D	12.E

5. BÖLÜM

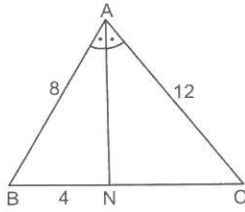
AÇIORTAY KENARORTAY







1.

 $|BC| = ?$

- A) 4 B) 6 C) 10 D) 12 E) 15

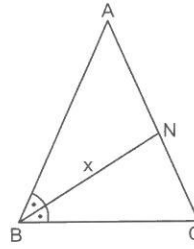
$$m(\widehat{BAN}) = m(\widehat{NAC})$$

$$|AB| = 8$$

$$|BC| = 12$$

$$|BN| = 4$$

4.

 $x = ?$

- A)
- $2\sqrt{10}$
- B) 6 C)
- $4\sqrt{2}$
- D) 5 E)
- $3\sqrt{2}$

$$m(\widehat{ABN}) = m(\widehat{NBC})$$

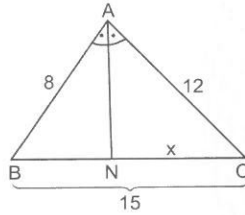
$$|AB| = 12$$

$$|BC| = 6$$

$$|AC| = 12$$

$$|BE| = x$$

2.

 $x = ?$

- A) 4 B) 6 C) 9 D) 12 E) 15

$$m(\widehat{BAN}) = m(\widehat{NAC})$$

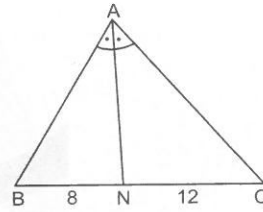
$$|AB| = 8$$

$$|AC| = 12$$

$$|BC| = 15$$

$$|NC| = x$$

5.

 $x = ?$

- A) 4 B)
- $5\sqrt{2}$
- C)
- $6\sqrt{3}$
- D)
- $4\sqrt{7}$
- E)
- $2\sqrt{30}$

$$m(\widehat{BAN}) = m(\widehat{NAC})$$

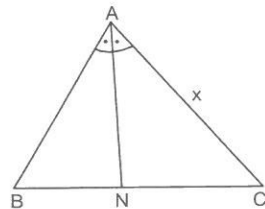
$$|AB| + |AC| = 30$$

$$|BN| = 8$$

$$|NC| = 12$$

$$|AN| = x$$

3.

 $x = ?$

- A) 2 B) 3 C) 5 D) 6 E) 9

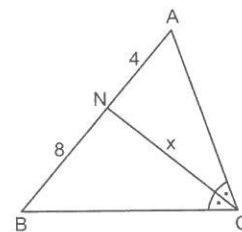
$$m(\widehat{BAN}) = m(\widehat{NAC})$$

$$|AB| + |AC| = 15$$

$$\frac{|BN|}{|BC|} = \frac{2}{5}$$

$$|AC| = x$$

6.

 $x = ?$

- A)
- $3\sqrt{6}$
- B)
- $4\sqrt{2}$
- C)
- $5\sqrt{3}$
- D)
- $6\sqrt{3}$
- E)
- $4\sqrt{6}$

$$m(\widehat{ACN}) = m(\widehat{NCB})$$

$$|AN| = 4$$

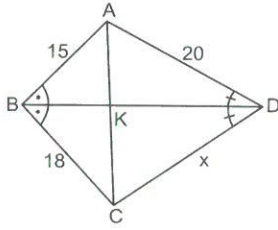
$$|NB| = 8$$

$$|AC| + |BC| = 24$$

$$|NC| = x$$



7.

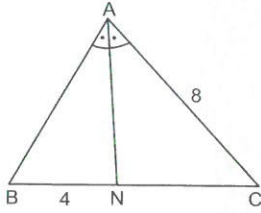


$$\begin{aligned} m(\widehat{ABD}) &= m(\widehat{DBC}) \\ m(\widehat{ADB}) &= m(\widehat{BDC}) \\ |AB| &= 15 \\ |BC| &= 18 \\ |AD| &= 20 \\ |DC| &= x \end{aligned}$$

 $x = ?$

- A) 24 B) 20 C) 18 D) 16 E) 12

8.

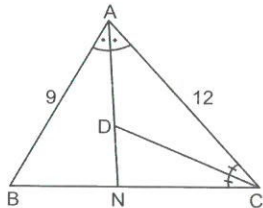


$$\begin{aligned} m(\widehat{BAN}) &= m(\widehat{NAC}) \\ |AC| &= 8 \\ |BN| &= 4 \end{aligned}$$

 $|AB| \cdot |NC| = ?$

- A) 8 B) 16 C) 32 D) 64 E) 96

9.

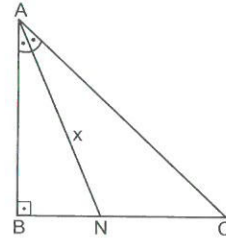


$$\begin{aligned} m(\widehat{BAN}) &= m(\widehat{NAC}) \\ m(\widehat{ACD}) &= m(\widehat{NCD}) \\ |AB| &= 9 \\ |AC| &= 12 \\ \frac{|AD|}{|AN|} &= \frac{3}{4} \\ |BC| &= x \end{aligned}$$

 $x = ?$

- A) 6 B) 7 C) 8 D) 9 E) 10

10.

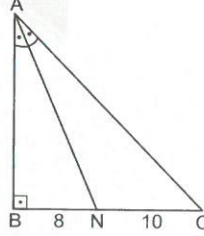


$$\begin{aligned} m(\widehat{BAN}) &= m(\widehat{NAC}) \\ [AB] &\perp [BC] \\ |BN| &= 2 \\ |NC| &= 3 \\ |AN| &= x \end{aligned}$$

 $x = ?$

- A)
- $3\sqrt{2}$
- B)
- $2\sqrt{6}$
- C) 5 D)
- $4\sqrt{2}$
- E) 6

11.

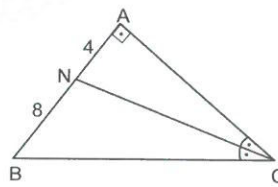


$$\begin{aligned} m(\widehat{BAN}) &= m(\widehat{NAC}) \\ [AB] &\perp [BC] \\ |BN| &= 8 \\ |NC| &= 10 \end{aligned}$$

 $|AB| + |AC| = ?$

- A) 36 B) 54 C) 66 D) 72 E) 84

12.



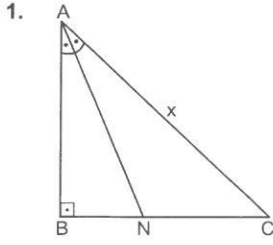
$$\begin{aligned} [BA] &\perp [AC] \\ m(\widehat{ACN}) &= m(\widehat{NCB}) \\ |AN| &= 4 \\ |NB| &= 8 \end{aligned}$$

 $|AC| + |BC| = ?$

- A) 4 B)
- $4\sqrt{3}$
- C) 8 D)
- $8\sqrt{3}$
- E)
- $12\sqrt{3}$

Cevap Anahtarı – Answer Sheet

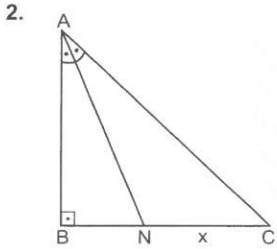
1.C	2.C	3.E	4.A	5.E	6.E
7.A	8.C	9.B	10.B	11.B	12.E



$$\begin{aligned} m(\widehat{BAN}) &= m(\widehat{NAC}) \\ |BN| &= 1 \\ |NC| &= 3 \\ |AC| &= x \end{aligned}$$

$x = ?$

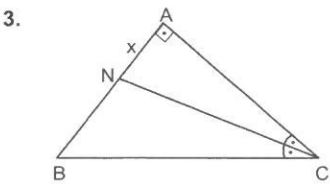
- A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) 3 D) $3\sqrt{2}$ E) $3\sqrt{3}$



$$\begin{aligned} m(\widehat{BAN}) &= m(\widehat{NAC}) \\ |AB| &= |BC| \\ |BN| &= 3\sqrt{2} \\ |NC| &= x \end{aligned}$$

$x = ?$

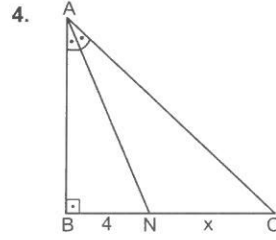
- A) 3 B) $3\sqrt{2}$ C) 6 D) $6\sqrt{2}$ E) 12



$$\begin{aligned} [BA] &\perp [AC] \\ m(\widehat{ACN}) &= m(\widehat{BCN}) \\ |BC| &= |AC| + 12 \\ |BN| &= 15 \\ |AN| &= x \end{aligned}$$

$x = ?$

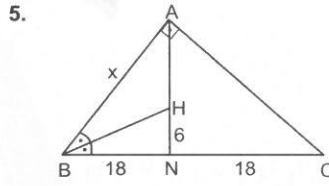
- A) 5 B) 6 C) 7 D) 8 E) 9



$$\begin{aligned} [AB] &\perp [BC] \\ m(\widehat{BAN}) &= m(\widehat{NAC}) \\ |BN| &= 4 \\ |AC| - |AB| &= 3 \\ |NC| &= x \end{aligned}$$

$x = ?$

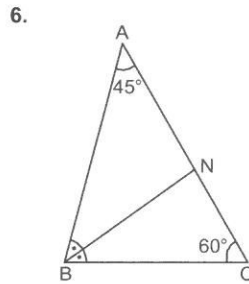
- A) 3 B) 4 C) 5 D) 6 E) 7



$$\begin{aligned} [BA] &\perp [AC] \\ m(\widehat{ABH}) &= m(\widehat{NBH}) \\ |BN| &= 18 \\ |NC| &= 18 \\ |HN| &= 6 \\ |AB| &= x \end{aligned}$$

$x = ?$

- A) 36 B) 32 C) 28 D) 24 E) 18

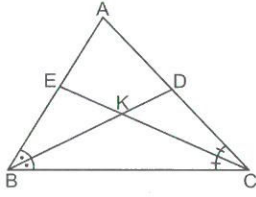


$$\begin{aligned} m(\widehat{ABN}) &= m(\widehat{NBC}) \\ \frac{|AN|}{|NC|} &= ? \end{aligned}$$

- A) $\sqrt{3}$ B) $\sqrt{2}$ C) $\frac{\sqrt{2}}{3}$ D) $\frac{\sqrt{3}}{2}$ E) $\frac{\sqrt{6}}{2}$



7.

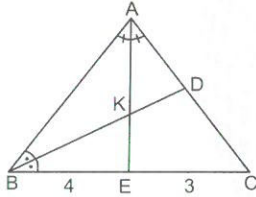


$$\begin{aligned}m(\widehat{ABD}) &= m(\widehat{DBC}) \\m(\widehat{ACE}) &= m(\widehat{ECB}) \\|AC| &= 12 \\|BC| &= 18 \\|AB| &= 10\end{aligned}$$

$$\frac{|EK|}{|KC|} = ?$$

- A) $\frac{1}{3}$ B) $\frac{3}{4}$ C) $\frac{3}{5}$ D) $\frac{5}{6}$ E) 1

8.

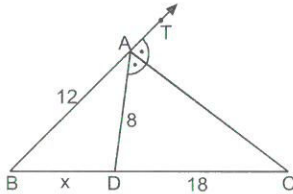


$$\begin{aligned}m(\widehat{BAE}) &= m(\widehat{CAE}) \\m(\widehat{ABD}) &= m(\widehat{DBC}) \\|AB| &= 8 \\|BE| &= 4 \\|EC| &= 3\end{aligned}$$

$$\frac{|KD|}{|BK|} = ?$$

- A) $\frac{2}{3}$ B) $\frac{2}{5}$ C) $\frac{3}{4}$ D) $\frac{4}{5}$ E) 1

9.

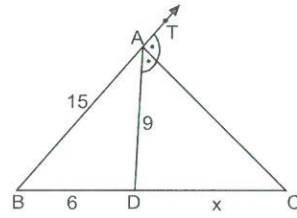


$$\begin{aligned}m(\widehat{TAC}) &= m(\widehat{CAD}) \\|AB| &= 12 \\|AD| &= 8 \\|DC| &= 18 \\|BD| &= x\end{aligned}$$

$$x = ?$$

- A) 18 B) 15 C) 12 D) 10 E) 9

10.

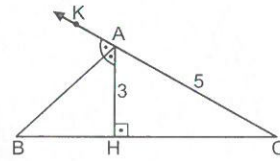


$$\begin{aligned}m(\widehat{TAC}) &= m(\widehat{CAD}) \\|AB| &= 15 \\|AD| &= 9 \\|BD| &= 6 \\|DC| &= x\end{aligned}$$

$$x = ?$$

- A) 15 B) 12 C) 9 D) 8 E) 6

11.

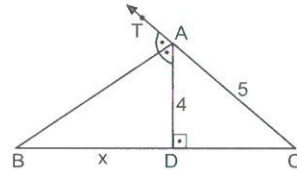


$$\begin{aligned}m(\widehat{KAB}) &= m(\widehat{BAH}) \\[AH] &\perp [BC] \\|AC| &= 5 \\|AH| &= 3 \\|AB| &= x\end{aligned}$$

$$x = ?$$

- A) 5 B) 6 C) $3\sqrt{5}$ D) $4\sqrt{2}$ E) 10

12.



$$\begin{aligned}[AD] &\perp [BC] \\|AD| &= 4 \\|AC| &= 5 \\|BD| &= x\end{aligned}$$

$$x = ?$$

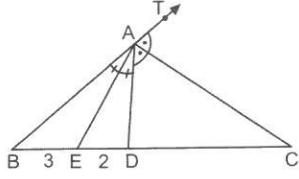
- A) 20 B) 18 C) 15 D) 12 E) 9

Cevap Anahtarı – Answer Sheet

1.D	2.C	3.E	4.C	5.A	6.E
7.A	8.B	9.E	10.C	11.C	12.D



1.

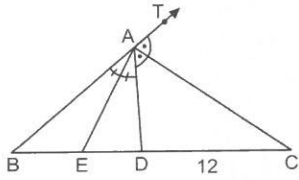


$$\begin{aligned}m(\widehat{BAE}) &= m(\widehat{EAD}) \\m(\widehat{DAC}) &= m(\widehat{CAT}) \\|BE| &= 3 \\|ED| &= 2 \\|BC| &= x\end{aligned}$$

 $x = ?$

- A) 10 B) 12 C) 13 D) 14 E) 15

2.

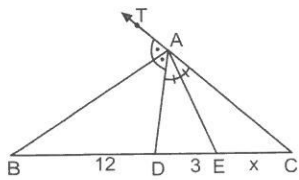


$$\begin{aligned}m(\widehat{BAE}) &= m(\widehat{EAD}) \\m(\widehat{DAC}) &= m(\widehat{CAT}) \\|DC| &= 12 \\|AD| &= \frac{4}{5} \\|AB| &= 5\end{aligned}$$

 $|BD| = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

3.

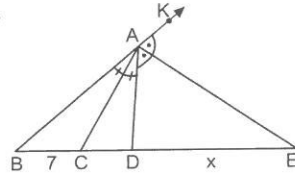


$$\begin{aligned}m(\widehat{TAB}) &= m(\widehat{BAD}) \\m(\widehat{DAE}) &= m(\widehat{CAE}) \\|BD| &= 12 \\|DE| &= 3 \\|EC| &= x\end{aligned}$$

 $x = ?$

- A) 8 B) 7 C) 6 D) 5 E) 4

4.

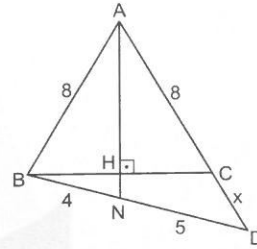


$$\begin{aligned}m(\widehat{KAE}) &= m(\widehat{DAE}) \\m(\widehat{BAC}) &= m(\widehat{CAD}) \\|AC| &= 21 \\|AE| &= 28 \\|BC| &= 7 \\|DE| &= x\end{aligned}$$

 $x = ?$

- A) 21 B) 25 C) 28 D) 30 E) 35

5.

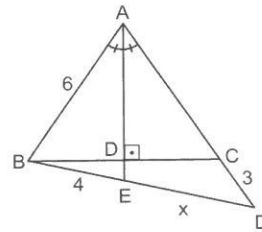


$$\begin{aligned}[AH] &\perp [BC] \\|AB| &= 8 \\|AC| &= 8 \\|DN| &= 4 \\|ND| &= 5 \\|CD| &= x\end{aligned}$$

 $x = ?$

- A) 2 B) 3 C) 4 D) 5 E) 6

6.



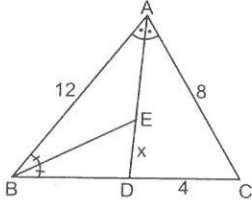
$$\begin{aligned}m(\widehat{BAE}) &= m(\widehat{EAD}) \\[AD] &\perp [BC] \\|AB| &= 6 \\|BE| &= 4 \\|CD| &= 3 \\|ED| &= x\end{aligned}$$

 $x = ?$

- A) 5 B) 6 C) 7 D) 8 E) 9



7.

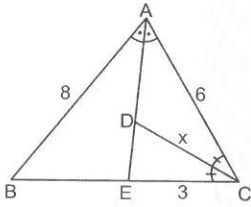


$$\begin{aligned} m(\widehat{BAD}) &= m(\widehat{DAC}) \\ |AB| &= 12 \\ |AC| &= 8 \\ |DC| &= 4 \\ |ED| &= x \end{aligned}$$

 $x = ?$

- A) $\sqrt{2}$ B) 2 C) $2\sqrt{2}$ D) 4 E) $4\sqrt{2}$

8.

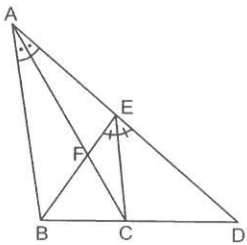


$$\begin{aligned} m(\widehat{BAE}) &= m(\widehat{EAC}) \\ m(\widehat{ACD}) &= m(\widehat{DCE}) \\ |AB| &= 8 \\ |AC| &= 6 \\ |EC| &= 3 \\ |DC| &= x \end{aligned}$$

 $x = ?$

- A) 6 B) 4 C) $3\sqrt{2}$ D) $2\sqrt{3}$ E) $\sqrt{10}$

9.

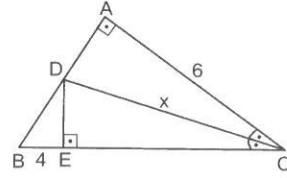


$$\begin{aligned} m(\widehat{BAC}) &= m(\widehat{CAD}) \\ m(\widehat{BEC}) &= m(\widehat{CED}) \\ |AB| &= 8 \\ |AE| &= 6 \\ |BE| &= 5 \\ |ED| &= x \end{aligned}$$

 $x = ?$

- A) 10 B) 9 C) 8 D) 7 E) 6

10.

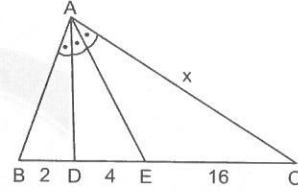


$$\begin{aligned} m(\widehat{ACD}) &= m(\widehat{DCB}) \\ [BA] &\perp [AC] \\ [DE] &\perp [BC] \\ |AC| &= 6 \\ |BE| &= 4 \\ |DC| &= x \end{aligned}$$

 $x = ?$

- A) 3 B) 5 C) $3\sqrt{5}$ D) $5\sqrt{5}$ E) 10

11.

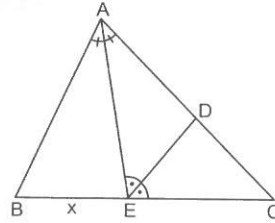


$$\begin{aligned} m(\widehat{BAD}) &= m(\widehat{DAE}) = m(\widehat{EAC}) \\ |BD| &= 2 \\ |DE| &= 4 \\ |EC| &= 16 \\ |AC| &= x \end{aligned}$$

 $x = ?$

- A) $2\sqrt{10}$ B) $3\sqrt{5}$ C) $4\sqrt{10}$ D) $6\sqrt{5}$ E) $8\sqrt{10}$

12.



$$\begin{aligned} m(\widehat{BAE}) &= m(\widehat{EAC}) \\ m(\widehat{CED}) &= m(\widehat{DEA}) \\ |AE| &= 6 \\ |AD| &= 3 \\ |EC| &= 4 \\ |BE| &= x \end{aligned}$$

 $x = ?$

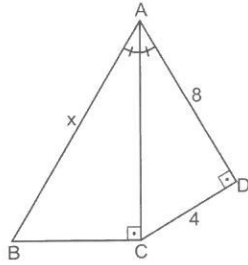
- A) 20 B) 16 C) 12 D) 9 E) 5

Cevap Anahtarı – Answer Sheet

1.E	2.A	3.D	4.D	5.A	6.B
7.C	8.E	9.A	10.C	11.E	12.B



1.



$$m(\widehat{BAC}) = m(\widehat{CAD})$$

$$|AD| = 8$$

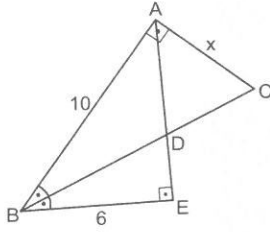
$$|DC| = 4$$

$$|AB| = x$$

$$x = ?$$

- A) 14 B) 12 C) 10 D) 6 E) 4

2.



$$[BA] \perp [AC]$$

$$[BE] \perp [AE]$$

$$m(\widehat{ABC}) = m(\widehat{CBE})$$

$$|AB| = 10$$

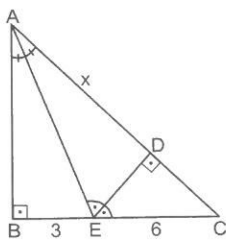
$$|BE| = 6$$

$$|AC| = x$$

$$x = ?$$

- A) 10 B) 8 C) 7 D) 5 E) 3

3.



$$m(\widehat{BAE}) = m(\widehat{EAC})$$

$$m(\widehat{AED}) = m(\widehat{DEC})$$

$$|BE| = 3$$

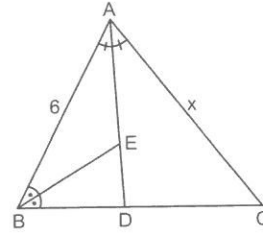
$$|EC| = 6$$

$$|AD| = x$$

$$x = ?$$

- A) $\sqrt{3}$ B) $2\sqrt{3}$ C) $3\sqrt{3}$ D) 6 E) 18

4.



$$m(\widehat{ABE}) = m(\widehat{EBD})$$

$$m(\widehat{BAD}) = m(\widehat{DAC})$$

$$|AB| = 6$$

$$|BC| = 7$$

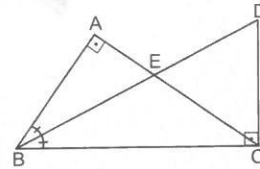
$$\frac{|AE|}{|AD|} = \frac{2}{3}$$

$$|AC| = x$$

$$x = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

5.



$$[BA] \perp [AC]$$

$$[DC] \perp [BC]$$

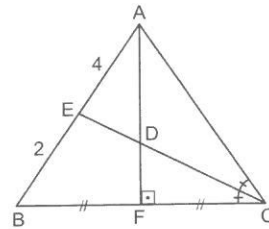
$$m(\widehat{ABE}) = m(\widehat{DBC})$$

$$\frac{|DC|}{|AE|} = \frac{5}{3}$$

$$\frac{|AC|}{|AE|} = ?$$

- A) $\frac{5}{3}$ B) $\frac{5}{2}$ C) $\frac{8}{3}$ D) $\frac{6}{5}$ E) $\frac{7}{3}$

6.



$$[AF] \perp [BC]$$

$$|BF| = |FC|$$

$$|EB| = 2$$

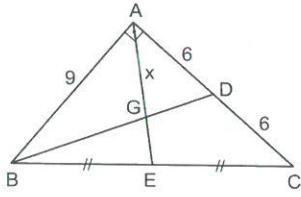
$$|AE| = 4$$

$$\frac{|AD|}{|DF|} = ?$$

- A) 4 B) 3 C) $\frac{5}{2}$ D) 2 E) $\frac{3}{2}$



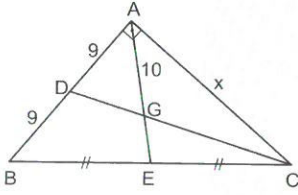
7.

 $x = ?$

- A) $\frac{5}{2}$ B) 5 C) $\frac{15}{2}$ D) 10 E) 15

$$\begin{aligned} [BA] &\perp [AC] \\ |BE| &= |EC| \\ |AD| &= |DC| = 6 \\ |AB| &= 9 \\ |AG| &= x \end{aligned}$$

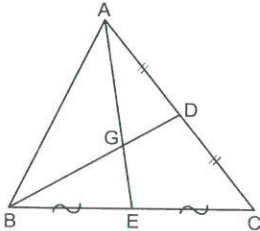
8.

 $x = ?$

- A) 24 B) 18 C) 15 D) 12 E) 9

$$\begin{aligned} [BA] &\perp [AC] \\ |AD| &= |DB| = 9 \\ |BE| &= |EC| \\ |AG| &= 10 \\ |AC| &= x \end{aligned}$$

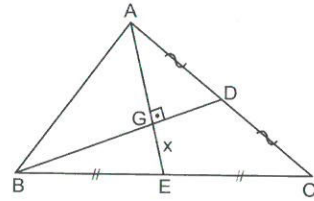
9.

 $|AG| = ?$

- A) 20 B) 18 C) 15 D) 13 E) 10

$$\begin{aligned} |AD| &= |DC| \\ |BE| &= |EC| \\ |BG| &= (3x - 7) \\ |GD| &= (x + 3) \\ |GE| &= (x - 3) \end{aligned}$$

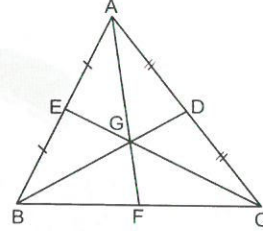
10.

 $|GE| = ?$

- A) 2 B) 3 C) 4 D) 5 E) 6

$$\begin{aligned} [AG] &\perp [GD] \\ |AD| &= |DC| \\ |BE| &= |EC| \\ |AC| &= 10 \\ |BD| &= 9 \end{aligned}$$

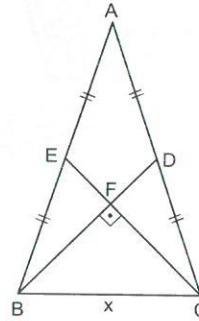
11.

 $|GE| + |GF| + |GD| = ?$

- A) 12 B) 15 C) 18 D) 21 E) 45

$$\begin{aligned} |AE| &= |EB| \\ |AD| &= |DC| \\ |AF| &= 12 \\ |EC| &= 15 \\ |BD| &= 18 \end{aligned}$$

12.

 $|BC| = ?$

- A) $2\sqrt{2}$ B) 4 C) $4\sqrt{2}$ D) 8 E) $8\sqrt{2}$

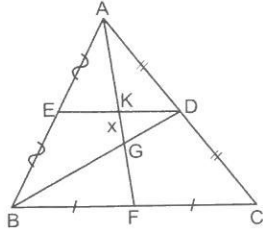
$$\begin{aligned} |AB| &= |AC| \\ |AE| &= |EB| = |AD| = |DC| \\ |EF| &= 2\sqrt{2} \end{aligned}$$

Cevap Anahtarı – Answer Sheet

1.C	2.D	3.C	4.E	5.C	6.A
7.B	8.A	9.A	10.A	11.B	12.D



1.

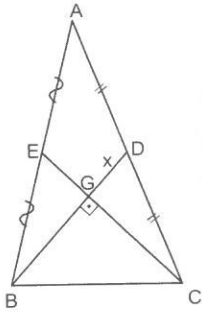


$$\begin{aligned} |AE| &= |EB| \\ |AD| &= |DC| \\ |BF| &= |FC| \\ |AF| &= 18 \\ |KG| &= x \end{aligned}$$

 $x = ?$

- A) 2 B) 3 C) 4 D) 5 E) 6

2.

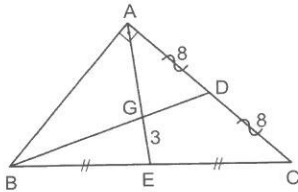


$$\begin{aligned} [BD] &\perp [EC] \\ |AE| &= |EB| \\ |AD| &= |DC| \\ |AB| &= 30 \\ |GC| &= 18 \\ |GD| &= x \end{aligned}$$

 $x = ?$

- A) 10 B) 9 C) 8 D) 7 E) 6

3.

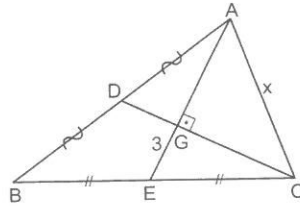


$$\begin{aligned} [BA] &\perp [AC] \\ |AD| &= |DC| \\ |BE| &= |EC| \\ |DC| &= 8 \\ |GE| &= 3 \end{aligned}$$

 $|AE| + |AC| + |EC| = ?$

- A) 28 B) 30 C) 32 D) 34 E) 36

4.

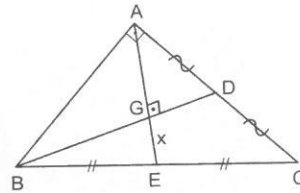


$$\begin{aligned} [AE] &\perp [DC] \\ |AD| &= |DB| \\ |BE| &= |EC| \\ |AB| &= 4\sqrt{13} \\ |GE| &= 3 \\ |AC| &= x \end{aligned}$$

 $x = ?$

- A)
- $2\sqrt{13}$
- B) 8 C) 10 D)
- $10\sqrt{2}$
- E) 13

5.

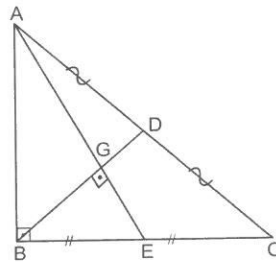


$$\begin{aligned} [BA] &\perp [AC] \\ [AG] &\perp [BD] \\ |AD| &= |DC| \\ |BE| &= |EC| \\ |AB| &= 12 \\ |GE| &= x \end{aligned}$$

 $x = ?$

- A)
- $2\sqrt{3}$
- B)
- $4\sqrt{3}$
- C)
- $6\sqrt{3}$
- D)
- $8\sqrt{3}$
- E)
- $10\sqrt{3}$

6.



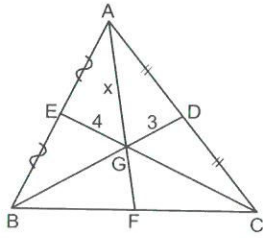
$$\begin{aligned} [AB] &\perp [BC] \\ [AE] &\perp [BD] \\ |AD| &= |DC| \\ |BE| &= |EC| \\ |GE| &= 2 \\ |AC| &= x \end{aligned}$$

 $x = ?$

- A)
- $2\sqrt{2}$
- B) 4 C)
- $4\sqrt{2}$
- D) 6 E)
- $6\sqrt{2}$



7.

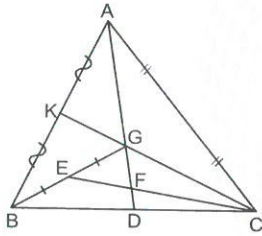


$$\begin{aligned} |AE| &= |EB| \\ |AD| &= |DC| \\ [EC] &\perp [BD] \\ |BD| &= 3 \\ |EG| &= 4 \\ |AG| &= x \end{aligned}$$

 $x = ?$

- A) 4 B) 5 C) 6 D) 9 E) 10

8.

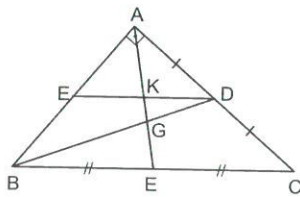


$$\begin{aligned} |AK| &= |KB| \\ |BD| &= |DC| \\ |BE| &= |EG| \\ |GF| &= 6 \end{aligned}$$

 $|AD| = ?$

- A) 9 B) 18 C) 27 D) 36 E) 45

9.

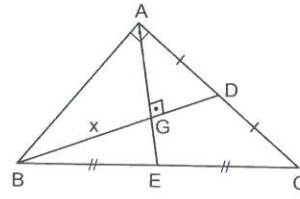


$$\begin{aligned} [BA] &\perp [AC] \\ [ED] &\parallel [BC] \\ |AD| &= |DC| \\ |BF| &= |FC| \\ |KG| &= 2 \end{aligned}$$

 $|BC| = ?$

- A) 12 B) 18 C) 24 D) 30 E) 36

10.

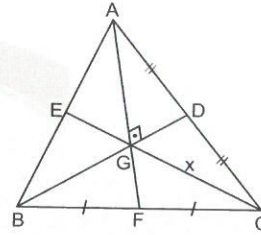


$$\begin{aligned} [BA] &\perp [AC] \\ |AD| &= |DC| \\ |BE| &= |EC| \\ |BC| &= 12\sqrt{2} \\ |BG| &= x \end{aligned}$$

 $x = ?$

- A)
- $2\sqrt{2}$
- B) 4 C)
- $4\sqrt{2}$
- D) 8 E)
- $8\sqrt{2}$

11.

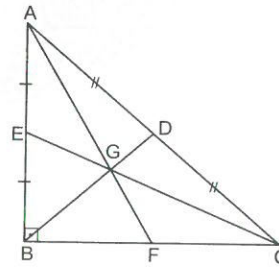


$$\begin{aligned} [AF] &\perp [BD] \\ |AD| &= |DC| \\ |BF| &= |FC| \\ |GD| &= 6 \\ |GF| &= 8 \\ |GC| &= x \end{aligned}$$

 $x = ?$

- A) 12 B) 16 C) 20 D) 24 E) 28

12.



$$\begin{aligned} [AB] &\perp [BC] \\ [AF] &\perp [BD] \\ |AE| &= |EB| \\ |AD| &= |DC| \\ |AG| &= 4 \\ |BC| &= x \end{aligned}$$

 $x = ?$

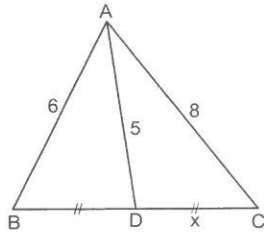
- A)
- $4\sqrt{2}$
- B)
- $4\sqrt{3}$
- C)
- $6\sqrt{2}$
- D)
- $6\sqrt{3}$
- E)
- $8\sqrt{3}$

Cevap Anahtarı – Answer Sheet

1.B	2.E	3.D	4.C	5.A	6.E
7.E	8.C	9.C	10.D	11.C	12.B



1.

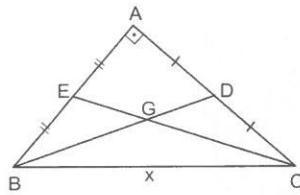


$$\begin{aligned} |BD| &= |DC| \\ |AB| &= 6 \\ |AC| &= 8 \\ |AD| &= 5 \\ |DC| &= x \end{aligned}$$

 $x = ?$

- A) 5 B) 6 C) 8 D) 9 E) 10

2.

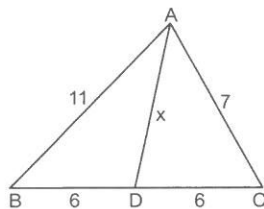


$$\begin{aligned} [BA] &\perp [AC] \\ |AE| &= |EB| \\ |AD| &= |DC| \\ |EC|^2 + |BD|^2 &= 80 \\ |BC| &= x \end{aligned}$$

 $x = ?$

- A) 4 B) 8 C) 12 D) 16 E) 20

3.

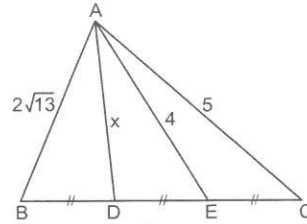


$$\begin{aligned} |AB| &= 11 \\ |AC| &= 7 \\ |BD| &= |DC| = 6 \\ |AD| &= x \end{aligned}$$

 $x = ?$

- A) 6 B)
- $6\sqrt{2}$
- C) 7 D)
- $7\sqrt{2}$
- E) 8

4.

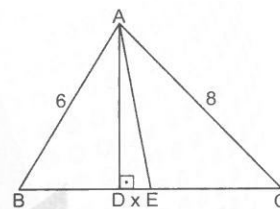


$$\begin{aligned} |BD| &= |DE| = |EC| \\ |AB| &= 2\sqrt{13} \\ |AE| &= 4 \\ |AC| &= 5 \\ |AD| &= x \end{aligned}$$

 $x = ?$

- A)
- $2\sqrt{3}$
- B) 4 C)
- $2\sqrt{5}$
- D) 5 E)
- $4\sqrt{2}$

5.

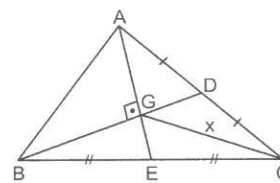


$$\begin{aligned} [AD] &\perp [BC] \\ |AB| &= 6 \\ |AC| &= 8 \\ |BC| &= 12 \\ |BE| &= |EC| \\ |DE| &= x \end{aligned}$$

 $x = ?$

- A) 2 B)
- $\frac{8}{7}$
- C)
- $\frac{7}{6}$
- D)
- $\frac{6}{5}$
- E) 1

6.

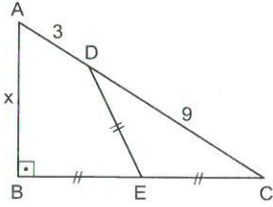


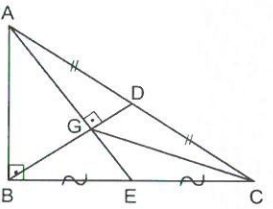
$$\begin{aligned} [AE] &\perp [BD] \\ |AC| &= 8 \\ |BC| &= 6 \\ |AD| &= |DC| \\ |BE| &= |EC| \\ |GC| &= x \end{aligned}$$

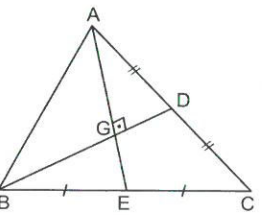
 $x = ?$

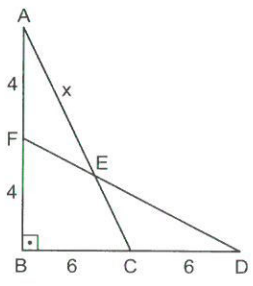
- A)
- $\sqrt{5}$
- B)
- $2\sqrt{5}$
- C)
- $3\sqrt{5}$
- D)
- $4\sqrt{5}$
- E)
- $5\sqrt{5}$

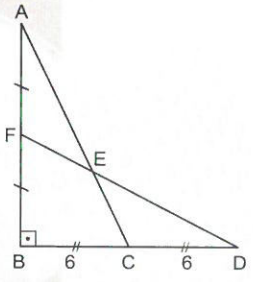


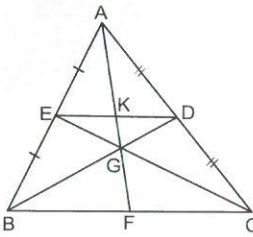
7. 
- $[AB] \perp [BC]$
 $|AD| = 3$
 $|DC| = 9$
 $|DE| = |BE| = |EC|$
 $|AB| = x$
- $x = ?$
- A) 4 B) 6 C) 8 D) 10 E) 12

8. 
- $[AE] \perp [BD]$
 $|AD| = |DC|$
 $|BE| = |EC|$
 $|GC| = 20$
 $|AE| = 24$
 $|BD| = x$
- $x = ?$
- A) 20 B) 18 C) 15 D) 14 E) 12

9. 
- $[AE] \perp [BD]$
 $|AE| = 9$
 $|BD| = 6$
 $|BC| = x$
- $x = ?$
- A) $2\sqrt{13}$ B) $4\sqrt{13}$ C) 5 D) 10 E) 15

10. 
- $[AB] \perp [BD]$
 $|AF| = |FB| = 4$
 $|BC| = |CD| = 6$
 $|AE| = x$
- $x = ?$
- A) $\frac{10}{3}$ B) 5 C) $\frac{20}{3}$ D) 7 E) $\frac{22}{3}$

11. 
- $[AB] \perp [BD]$
 $|AF| = |FB|$
 $|BC| = |CD| = 6$
 $|ED| = 10$
 $|AB| = x$
- $x = ?$
- A) 9 B) 12 C) 15 D) 18 E) 21

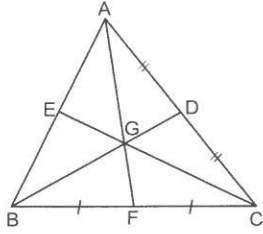
12. 
- $|AE| = |EB|$
 $|AD| = |DC|$
- $\frac{|AK|}{|GF|} + \frac{|EG|}{|GC|} = ?$
- A) 2 B) $\frac{3}{2}$ C) $\frac{4}{3}$ D) $\frac{5}{4}$ E) 1

Cevap Anahtarı – Answer Sheet

1.A	2.B	3.C	4.D	5.C	6.B
7.B	8.B	9.D	10.C	11.D	12.A



1.

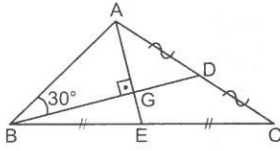


$$\begin{aligned} |AD| &= |DC| \\ |BF| &= |FC| \\ |BD| &= 15 \\ |CE| &= 9 \\ |AF| &= 12 \\ |AC| &= x \end{aligned}$$

$$x = ?$$

- A) 10 B) 12 C) 14 D) 16 E) 20

2.

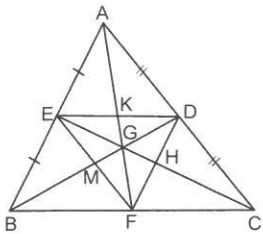


$$\begin{aligned} [AE] &\perp [BD] \\ m(\widehat{ABD}) &= 30^\circ \\ |AB| &= 12 \\ |AD| &= |DC| \\ |BE| &= |EC| \\ |AC| &= x \end{aligned}$$

$$x = ?$$

- A) $2\sqrt{7}$ B) $3\sqrt{7}$ C) $4\sqrt{7}$ D) $5\sqrt{7}$ E) $6\sqrt{7}$

3.

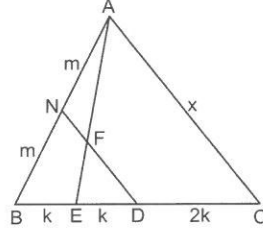


$$\begin{aligned} |AD| &= |DC| \\ |AE| &= |EB| \\ |AK| + |CH| + |BM| &= 12 \end{aligned}$$

$$|EG| + |GD| + |GF| = ?$$

- A) 6 B) 8 C) 10 D) 12 E) 15

4.

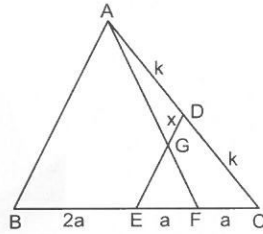


$$\begin{aligned} |AN| &= |NB| \\ |DC| &= 2 \cdot |BE| = 2 \cdot |ED| \\ |FD| &= 8 \\ |AC| &= x \end{aligned}$$

$$x = ?$$

- A) 8 B) 12 C) 16 D) 20 E) 24

5.

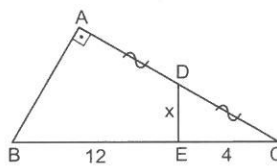


$$\begin{aligned} |AD| &= |DC| \\ |BE| &= 2 \cdot |EF| = 2 \cdot |FC| \\ |AB| &= 18 \\ |GD| &= x \end{aligned}$$

$$x = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

6.



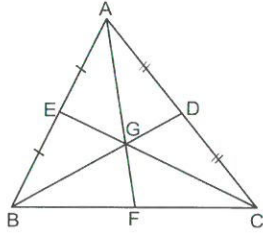
$$\begin{aligned} [BA] &\perp [AC] \\ |AD| &= |DC| \\ |BE| &= 12 \\ |EC| &= 4 \\ |DE| &= x \end{aligned}$$

$$x = ?$$

- A) 3 B) 4 C) 6 D) 8 E) 9



7.

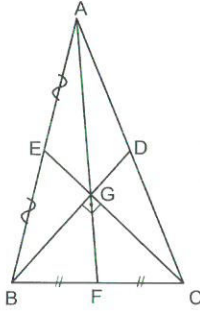


$$\begin{aligned} |AE| &= |EB| \\ |AD| &= |DC| \\ |AG| &= 6 \\ |BC| &= 6 \end{aligned}$$

$$|BG|^2 + |GC|^2 = ?$$

- A) 27 B) 32 C) 36 D) 48 E) 56

8.

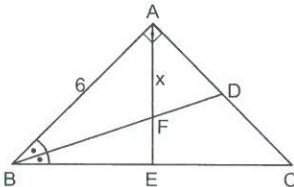


$$\begin{aligned} [AF] &\perp [EC] \\ |AG| &= (3x - 5) \\ |FC| &= (x + 5) \end{aligned}$$

$$x = ?$$

- A) 15 B) 12 C) 10 D) 9 E) 6

9.

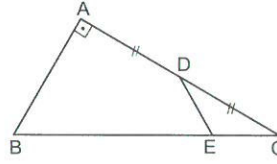


$$\begin{aligned} |BE| &= |EC| \\ [BA] &\perp [AC] \\ |AB| &= 6 \\ |BC| &= 18 \\ |AF| &= x \end{aligned}$$

$$x = ?$$

- A) $\frac{27}{5}$ B) 4 C) $\frac{18}{5}$ D) 3 E) $\frac{14}{5}$

10.

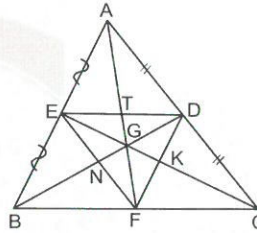


$$\begin{aligned} [BA] &\perp [AC] \\ |AD| &= |DC| \\ |BE| &= 3 \cdot |EC| \\ |DE| &= \frac{5}{2} \end{aligned}$$

$$|BC| = ?$$

- A) $\frac{5}{2}$ B) 5 C) 10 D) 15 E) 20

11.

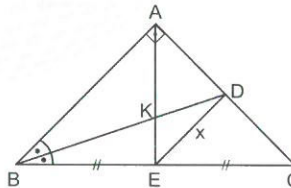


$$\begin{aligned} |AE| &= |EB| \\ |AD| &= |DC| \\ |BC| &= 8 \\ |AF| &= 12 \\ |AB| &= 12 \end{aligned}$$

$$|DK| + |TD| + |GF| = ?$$

- A) 8 B) 9 C) 10 D) 11 E) 12

12.



$$\begin{aligned} [BA] &\perp [AC] \\ |BE| &= |EC| \\ m(\widehat{ABD}) &= m(\widehat{DBC}) \\ |AB| &= 12 \\ |BC| &= 20 \\ |DE| &= x \end{aligned}$$

$$x = ?$$

- A) 8 B) $5\sqrt{2}$ C) 7 D) $3\sqrt{5}$ E) $2\sqrt{10}$

Cevap Anahtarı – Answer Sheet

1.A	2.E	3.B	4.E	5.A	6.B
7.C	8.A	9.C	10.C	11.B	12.E

6. BÖLÜM

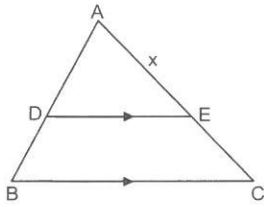
ÜÇGENDE BENZERLİK







1.

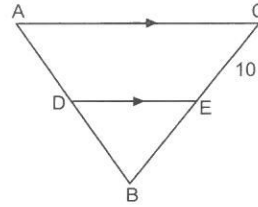


$x = ?$

- A) 8 B) 10 C) 12 D) 15 E) 18

$[DE] \parallel [BC]$
2. $|AD| = 3 \cdot |BD|$
 $|AC| = 20$
 $|AE| = x$

4.

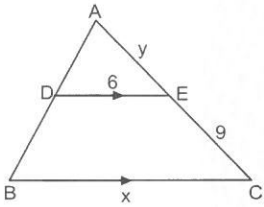


$|DB| + |EB| = ?$

- A) 6 B) 10 C) 15 D) 19 E) 21

$[DE] \parallel [AC]$
 $\frac{|DE|}{|AC|} = \frac{2}{7}$
 $|AB| = 21$
 $|EC| = 10$

2.

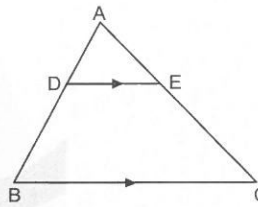


$x + y = ?$

- A) 9 B) 12 C) 15 D) 18 E) 21

$[DE] \parallel [BC]$
3. $|AD| = 2 \cdot |DB|$
 $|DE| = 6$
 $|EC| = 9$
 $|AE| = y$
 $|BC| = x$

5.

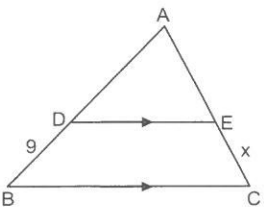


$x = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

$[DE] \parallel [BC]$
 $|AE| = (x)$
 $|EC| = (x + 2)$
 $|DE| = 6$
 $|BC| = 14$

3.

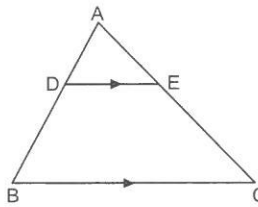


$x = ?$

- A) 12 B) 9 C) 6 D) 3 E) 1

$[DE] \parallel [BC]$
2. $|AD| = 3 \cdot |AE|$
 $|DB| = 9$
 $|EC| = x$

6.



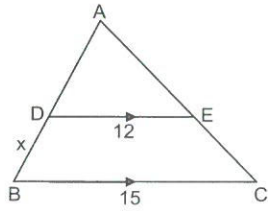
$|EC| + |AD| = ?$

- A) 18 B) 16 C) 15 D) 12 E) 9

$[DE] \parallel [BC]$
 $|BC| = 3 \cdot |DE|$
 $|BD| = 16$
 $|AE| = 5$



7.

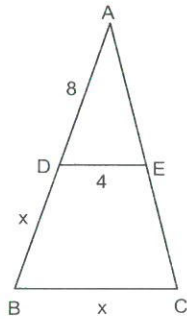


$$\begin{aligned} [DE] // [BC] \\ |DE| = 12 \\ |BC| = 15 \\ |AB| = 20 \\ |DB| = x \end{aligned}$$

$x = ?$

- A) 4 B) 5 C) 6 D) 7 E) 8

8.

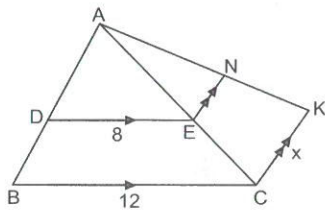


$$\begin{aligned} [DE] // [BC] \\ |AD| = 8 \\ |DE| = 4 \\ |DB| = |BC| = x \end{aligned}$$

$|AB| = ?$

- A) 8 B) 10 C) 12 D) 14 E) 16

9.

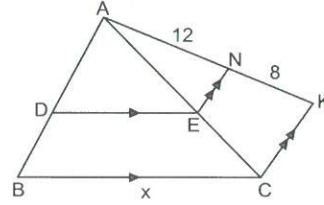


$$\begin{aligned} [DE] // [BC] \\ [EN] // [CK] \\ |DE| = 8 \\ |BC| = 12 \\ |EN| + |CK| = 15 \\ |CK| = x \end{aligned}$$

$x = ?$

- A) 3 B) 6 C) 8 D) 9 E) 12

10.

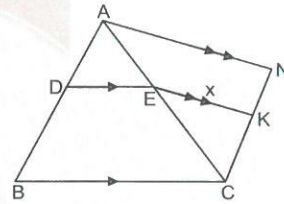


$$\begin{aligned} [DE] // [BC] \\ [EN] // [CK] \\ |AN| = 12 \\ |NK| = 8 \\ |DE| = 6 \\ |BC| = x \end{aligned}$$

$x = ?$

- A) 6 B) 7 C) 8 D) 9 E) 10

11.

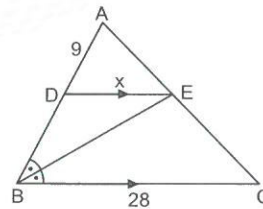


$$\begin{aligned} [DE] // [BC] \\ [EK] // [AN] \\ |AD| = 6 \\ |AB| = 14 \\ |AN| = 21 \\ |EK| = x \end{aligned}$$

$x = ?$

- A) 14 B) 12 C) 10 D) 8 E) 6

12.



$$\begin{aligned} [DE] // [BC] \\ |AD| = 9 \\ |BC| = 28 \\ |DE| = x \end{aligned}$$

$x = ?$

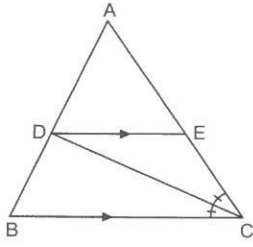
- A) 8 B) 10 C) 12 D) 14 E) 16

Cevap Anahtarı – Answer Sheet

1.C	2.E	3.C	4.B	5.D	6.A
7.A	8.E	9.D	10.E	11.B	12.C



1.

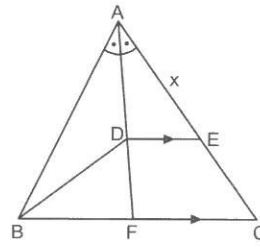


$$|AE| + |BC| = ?$$

- A) 15 B) 16 C) 17 D) 18 E) 19

$$\begin{aligned} [DE] // [BC] \\ |DE| = 6 \\ 3 \cdot |AE| = 2 \cdot |EC| \end{aligned}$$

4.

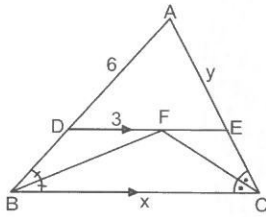


$$x = ?$$

- A) 6 B) 7 C) 8 D) 9 E) 10

$$\begin{aligned} m(\widehat{BAF}) &= m(\widehat{FAC}) \\ [DE] // [BC] \\ \frac{|BF|}{|AB|} &= \frac{1}{3} \\ |AD| &= |DF| \\ |DE| &= 3 \\ |AE| &= x \end{aligned}$$

2.

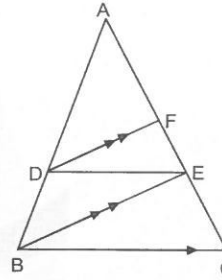


$$x - y = ?$$

- A) 1 B) $\frac{3}{2}$ C) 2 D) $\frac{5}{2}$ E) 3

$$\begin{aligned} [DE] // [BC] \\ |DF| &= 3 \\ |AD| &= 6 \\ |AC| &= 18 \\ |AE| &= y \\ |BC| &= x \end{aligned}$$

5.

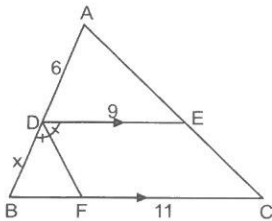


$$x = ?$$

- A) 18 B) 16 C) 14 D) 12 E) 9

$$\begin{aligned} [DE] // [BC] \\ [DF] // [BE] \\ |DF| &= 4 \\ |DE| &= 12 \\ |BE| &= 6 \\ |BC| &= x \end{aligned}$$

3.

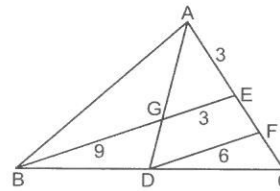


$$x = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

$$\begin{aligned} [DE] // [BC] \\ |AD| &= 6 \\ |DE| &= 9 \\ |FC| &= 11 \\ |DB| &= x \end{aligned}$$

6.



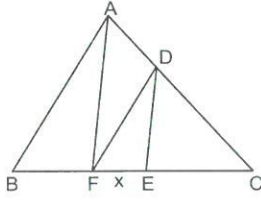
$$|AC| = ?$$

- A) 9 B) 10 C) 11 D) 12 E) 13

$$\begin{aligned} [BE] // [DF] \\ |GE| &= 3 \\ |BG| &= 9 \\ |DF| &= 6 \\ |AE| &= 3 \end{aligned}$$



7.

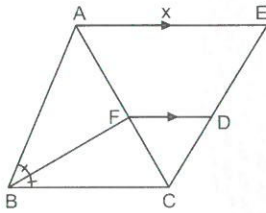


$$\begin{aligned} [AB] // [DF] \\ [AF] // [DE] \\ |DC| = 10 \\ |AD| = 5 \\ |BF| = 6 \\ |FE| = x \end{aligned}$$

$$x = ?$$

- A) 2 B) 3 C) 4 D) 5 E) 6

8.

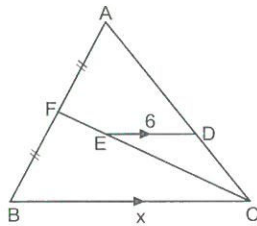


$$\begin{aligned} [FD] // [AE] \\ m(\widehat{ABF}) = m(\widehat{FBC}) \\ |AB| = 6 \\ |BC| = 4 \\ |FD| = 4 \\ |AD| = x \end{aligned}$$

$$x = ?$$

- A) 12 B) 10 C) 9 D) 6 E) 5

9.

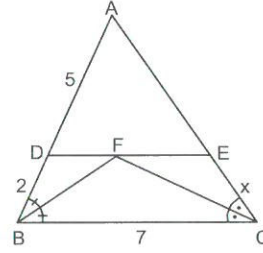


$$\begin{aligned} [ED] // [BC] \\ |AF| = |FB| \\ |EC| = 2 \cdot |FE| \\ |ED| = 6 \\ |BC| = x \end{aligned}$$

$$x = ?$$

- A) 18 B) 16 C) 15 D) 12 E) 9

10.

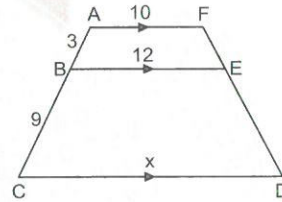


$$\begin{aligned} [DE] // [BC] \\ m(\widehat{DBF}) = m(\widehat{FBC}) \\ m(\widehat{ECF}) = m(\widehat{FCB}) \\ |AD| = 5 \\ |DB| = 2 \\ |BC| = 7 \\ |EC| = x \end{aligned}$$

$$x = ?$$

- A) 2 B) 3 C) 4 D) 5 E) 6

11.

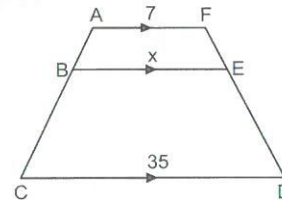


$$\begin{aligned} [AF] // [BE] // [CD] \\ |AF| = 10 \\ |BE| = 12 \\ |AB| = 3 \\ |BC| = 9 \\ |CD| = x \end{aligned}$$

$$x = ?$$

- A) 14 B) 15 C) 16 D) 17 E) 18

12.



$$\begin{aligned} [AF] // [BE] // [CD] \\ |AF| = 7 \\ |CD| = 35 \\ \frac{|AB|}{|AC|} = \frac{2}{7} \\ |BE| = x \end{aligned}$$

$$x = ?$$

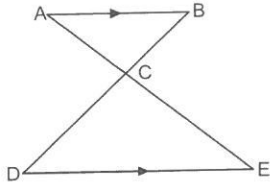
- A) 18 B) 15 C) 12 D) 10 E) 8

Cevap Anahtarı – Answer Sheet

1.E	2.B	3.B	4.D	5.A	6.A
7.C	8.B	9.A	10.B	11.E	12.B



1.

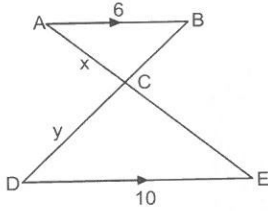


$$\begin{aligned}[AB] &\parallel [DE] \\ C &\in [BD] \\ |AB| &= 12 \\ |AC| &= 9 \\ |EC| &= 6 \\ |DE| &= x\end{aligned}$$

 $x = ?$

- A) 5 B) 6 C) 7 D) 8 E) 9

2.

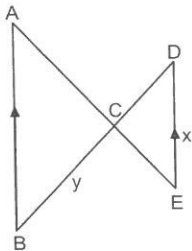


$$\begin{aligned}[AB] &\parallel [DE] \\ C &\in [AE] \\ |AB| &= 6 \\ |DE| &= 10 \\ |BD| &= 8 \\ |AE| &= 16 \\ |AC| &= x \\ |DC| &= y\end{aligned}$$

 $x + y = ?$

- A) 8 B) 9 C) 10 D) 11 E) 12

3.

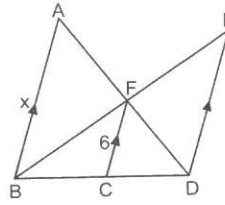


$$\begin{aligned}[AB] &\parallel [DE] \\ \frac{|AC|}{|AE|} &= \frac{3}{4} \\ |AB| &= 12 \\ |CD| &= 2 \\ |DE| &= x \\ |BC| &= y\end{aligned}$$

 $x + y = ?$

- A) 12 B) 11 C) 10 D) 9 E) 8

4.

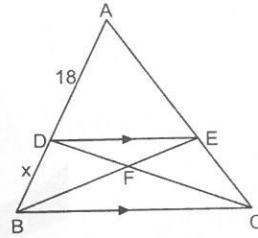


$$\begin{aligned}[AB] &\parallel [FC] \parallel [ED] \\ \frac{|AB|}{|ED|} &= 3 \\ |FC| &= 6 \\ |AB| &= x\end{aligned}$$

 $x = ?$

- A) 24 B) 20 C) 16 D) 12 E) 8

5.

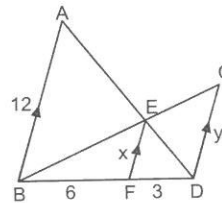


$$\begin{aligned}[DE] &\parallel [BC] \\ |AD| &= 18 \\ \frac{|BF|}{|EF|} &= \frac{5}{3}\end{aligned}$$

 $x = ?$

- A) 9 B) 12 C) 15 D) 18 E) 21

6.



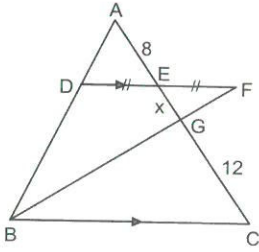
$$\begin{aligned}[AB] &\parallel [EF] \parallel [CD] \\ |AB| &= 12 \\ |BF| &= 6 \\ |FD| &= 3 \\ |EF| &= x \\ |CD| &= y\end{aligned}$$

 $x \cdot y = ?$

- A) 48 B) 42 C) 36 D) 30 E) 24



7.

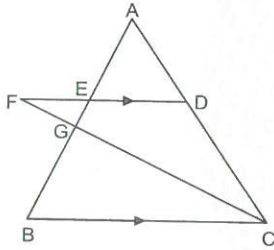


$$\begin{aligned} [DF] // [BC] \\ |AE| = 8 \\ |GC| = 12 \\ |EG| = x \end{aligned}$$

x = ?

- A) 2 B) 3 C) 4 D) 5 E) 6

8.

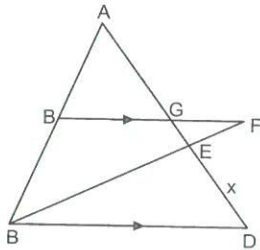


$$\begin{aligned} [DF] // [BC] \\ |ED| = 2 \cdot |FE| \\ |GC| = 3 \cdot |FG| \\ |AD| = 6 \\ |DC| = x \end{aligned}$$

x = ?

- A) 6 B) 5 C) 4 D) 3 E) 2

9.

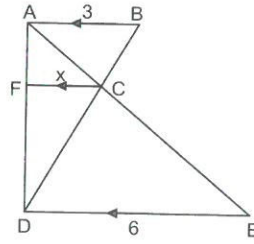


$$\begin{aligned} [BG] // [CD] \\ |AG| = 7 \\ |GE| = 2 \\ |BG| = 2 \cdot |GF| \\ |ED| = x \end{aligned}$$

x = ?

- A) 14 B) 12 C) 10 D) 8 E) 6

10.

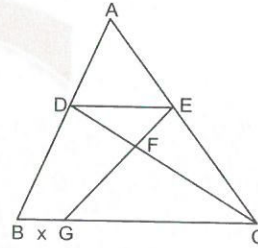


$$\begin{aligned} [AB] // [FC] // [DE] \\ |AB| = 3 \\ |DE| = 6 \\ |FC| = x \end{aligned}$$

x = ?

- A) 1 B) 2 C) 3 D) 4 E) 6

11.

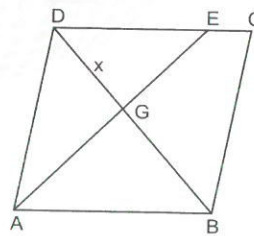


$$\begin{aligned} [DE] // [BC] \\ |AD| = |DB| \\ \frac{|DF|}{|FC|} = \frac{3}{4} \\ |BC| = 24 \\ |BG| = x \end{aligned}$$

x = ?

- A) 8 B) 10 C) 12 D) 14 E) 16

12.



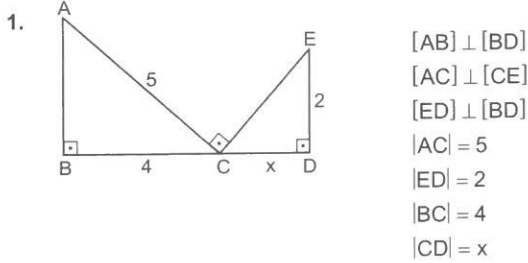
$$\begin{aligned} [DC] // [AB] \\ [DA] // [BC] \\ \frac{|DE|}{|DC|} = \frac{2}{3} \\ |BD| = 20 \\ |DG| = x \end{aligned}$$

x = ?

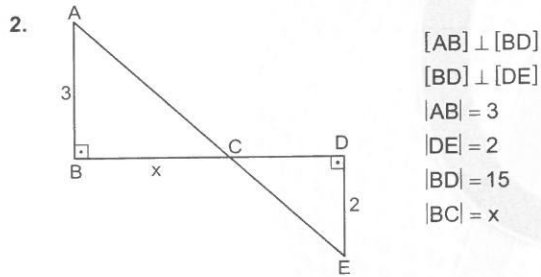
- A) 6 B) 8 C) 10 D) 12 E) 14

Cevap Anahtarı – Answer Sheet

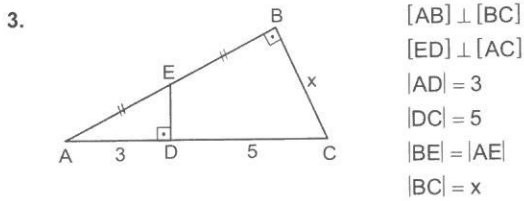
1.D	2.D	3.C	4.A	5.B	6.E
7.C	8.D	9.B	10.B	11.A	12.B

 $x = ?$

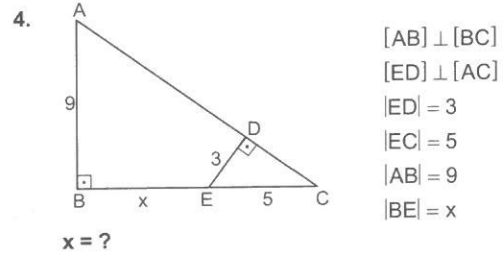
- A) 1 B) $\frac{3}{2}$ C) 2 D) $\frac{5}{2}$ E) 3

 $x = ?$

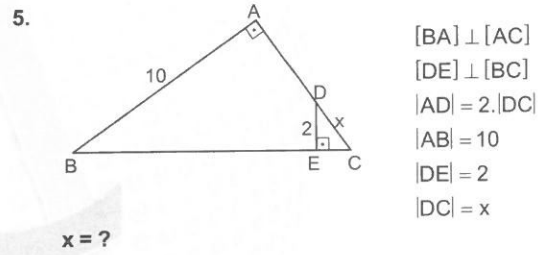
- A) 5 B) 6 C) 7 D) 8 E) 9

 $x = ?$

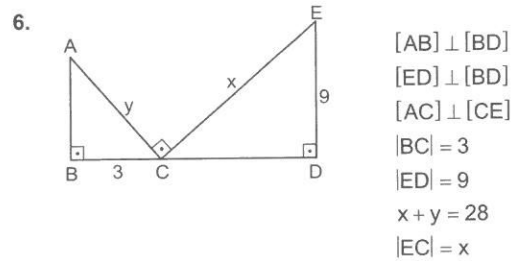
- A) 4 B) 5 C) 6 D) 7 E) 8

 $x = ?$

- A) 4 B) 5 C) 6 D) 7 E) 8

 $x = ?$

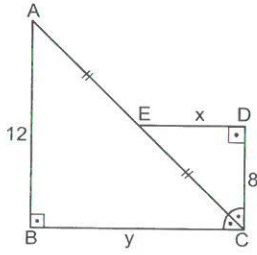
- A) $\frac{3}{2}$ B) 2 C) $\frac{5}{2}$ D) 3 E) $\frac{7}{2}$

 $x = ?$

- A) 14 B) 17 C) 19 D) 21 E) 24



7.

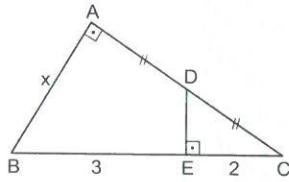


$[AB] \perp [BC]$
 $[ED] \perp [DC]$
 $m(\widehat{ECD}) = m(\widehat{ACB})$
 $|AB| = 12$
 $|AE| = |EC|$
 $|DC| = 8$
 $|ED| = x$
 $|BC| = y$

$y - x = ?$

- A) 6 B) 8 C) 10 D) 12 E) 14

8.

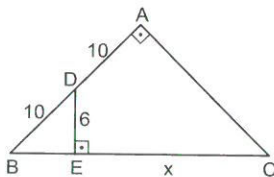


$[BA] \perp [AC]$
 $[DE] \perp [BC]$
 $|AD| = |DC|$
 $|EC| = 2$
 $|BE| = 3$
 $|AB| = x$

$x = ?$

- A) $\sqrt{5}$ B) 3 C) $3\sqrt{2}$ D) $2\sqrt{5}$ E) 5

9.

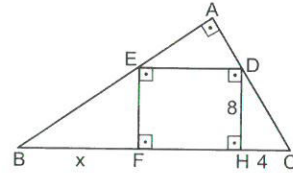


$[BA] \perp [AC]$
 $[DE] \perp [BC]$
 $|AD| = 10$
 $|BD| = 10$
 $|DE| = 6$
 $|EC| = x$

$x = ?$

- A) 18 B) 17 C) 16 D) 15 E) 14

10.

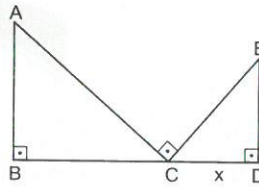


$[BA] \perp [AC]$
 $[EF] \parallel [DH]$
 $[ED] \parallel [BC]$
 $[EF] \perp [BC]$
 $|DH| = 8$
 $|HC| = 4$
 $|BF| = x$

$x = ?$

- A) 8 B) 10 C) 12 D) 16 E) 18

11.

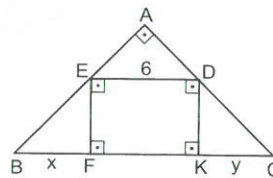


$[AB] \perp [BD]$
 $[AC] \perp [CE]$
 $[ED] \perp [BD]$
 $|BC| > |CD|$
 $|AB| = 4$
 $|ED| = 1$
 $|BD| = 5$
 $|CD| = x$

$x = ?$

- A) 1 B) $\frac{3}{2}$ C) 2 D) $\frac{5}{2}$ E) 4

12.



$[EF] \parallel [DK]$
 $[BA] \perp [AC]$
 $[ED] \parallel [BC]$
 $[EF] \perp [BC]$
 $|ED| = |EF|$
 $|BF| = x$
 $|KC| = y$

$x.y = ?$

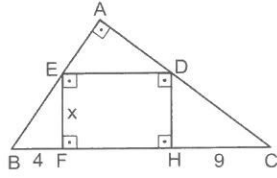
- A) 6 B) 12 C) 24 D) 36 E) 48

Cevap Anahtarı – Answer Sheet

1.B	2.E	3.A	4.D	5.C	6.D
7.C	8.A	9.B	10.D	11.A	12.D



1.

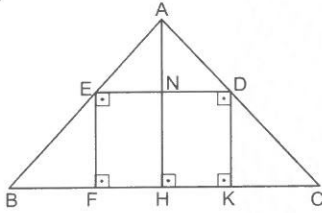


$[BA] \perp [AC]$
 $[EF] \perp [BC]$
 $[ED] \parallel [BC]$
 $[DH] \parallel [EF]$
 $|HC| = 9$
 $|BF| = 4$
 $|EF| = x$

 $x = ?$

A) 4 B) 5 C) 6 D) 13 E) 36

2.

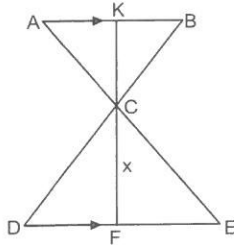


$|EF| = |FK|$
 $[AH] \perp [BC]$
 $[ED] \parallel [BC]$
 $[EF] \parallel [AH] \parallel [DK]$
 $|BC| = 24$
 $|ED| = 8$
 $|AN| = x$

 $x = ?$

A) 5 B) 4 C) 3 D) 2 E) 1

3.

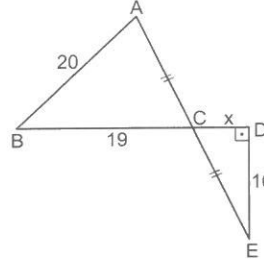


$[AB] \parallel [DE]$
 $4 \cdot |DC| = 3 \cdot |BC|$
 $|KF| = 21$
 $|FC| = x$

 $x = ?$

A) 6 B) 7 C) 8 D) 9 E) 10

4.

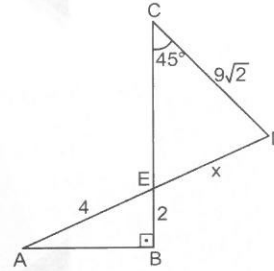


$[BD] \perp [DE]$
 $|AC| = |CE|$
 $|AB| = 20$
 $|BC| = 19$
 $|DE| = 16$
 $|CD| = x$

 $x = ?$

A) 4 B) 5 C) 6 D) 7 E) 8

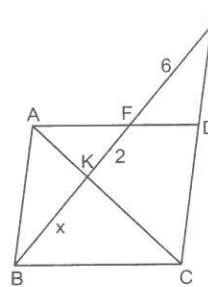
5.



$m(\widehat{BCE}) = 45^\circ$
 $[AB] \perp [BC]$
 $|AE| = 4$
 $|BE| = 2$
 $|CD| = 9\sqrt{2}$
 $|ED| = x$

 $x = ?$ A) 3 B) $3\sqrt{3}$ C) 6 D) 9 E) $6\sqrt{3}$

6.



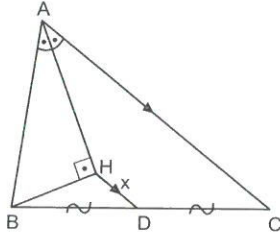
$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $|EF| = 6$
 $|KF| = 2$
 $|BK| = x$

 $x = ?$

A) 2 B) 4 C) 6 D) 8 E) 12



7.

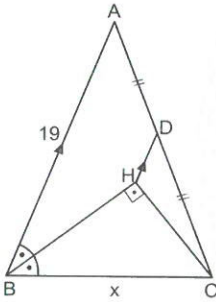


$$\begin{aligned} m(\widehat{BAH}) &= m(\widehat{HAC}) \\ [AH] &\perp [BH] \\ [HD] &\parallel [AC] \\ |AC| &= |AB| + 3 \\ |HD| &= x \end{aligned}$$

$x = ?$

- A) 1 B) $\frac{3}{2}$ C) 2 D) $\frac{5}{2}$ E) 3

8.

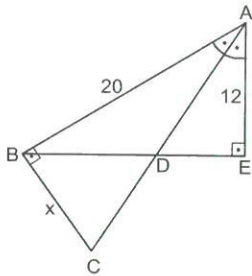


$$\begin{aligned} m(\widehat{ABH}) &= m(\widehat{HBC}) \\ [BH] &\perp [HC] \\ |HD| &= 3 \\ |AB| &= 19 \\ |BC| &= x \end{aligned}$$

$x = ?$

- A) 13 B) 12 C) 11 D) 10 E) 9

9.

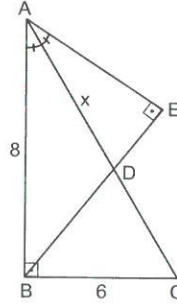


$$\begin{aligned} [AB] &\perp [BC] \\ [AE] &\perp [BE] \\ m(\widehat{BAC}) &= m(\widehat{CAE}) \\ |AB| &= 20 \\ |AE| &= 12 \\ |BC| &= x \end{aligned}$$

$x = ?$

- A) 4 B) 6 C) 8 D) 10 E) 12

10.

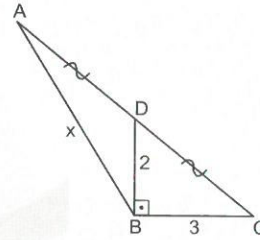


$$\begin{aligned} [AB] &\perp [BC] \\ [AE] &\perp [BE] \\ m(\widehat{BAC}) &= m(\widehat{CAE}) \\ |AB| &= 8 \\ |BC| &= 6 \\ |AD| &= x \end{aligned}$$

$x = ?$

- A) $\frac{14}{25}$ B) $\frac{8}{5}$ C) 2 D) $\frac{14}{5}$ E) 3

11.

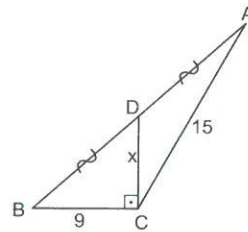


$$\begin{aligned} [DB] &\perp [BC] \\ |AD| &= |DC| \\ |DB| &= 2 \\ |BC| &= 3 \\ |AB| &= x \end{aligned}$$

$x = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

12.



$$\begin{aligned} [DC] &\perp [BC] \\ |BD| &= |DA| \\ |BC| &= 9 \\ |AC| &= 15 \\ |DC| &= x \end{aligned}$$

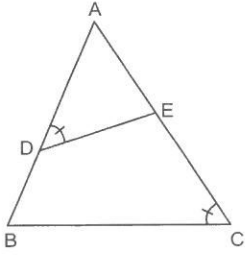
- A) 10 B) 9 C) 8 D) 7 E) 6

Cevap Anahtarı – Answer Sheet

1.C	2.B	3.D	4.D	5.E	6.B
7.B	8.A	9.D	10.D	11.C	12.E



1.



$$m(\widehat{ADE}) = m(\widehat{ACB})$$

$$|AD| = 6$$

$$|BD| = 4$$

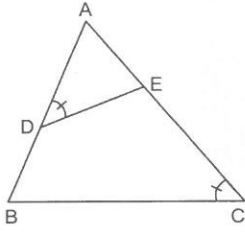
$$|AE| = 5$$

$$|EC| = x$$

 $x = ?$

- A) 6 B) 7 C) 8 D) 9 E) 10

2.



$$m(\widehat{ADE}) = m(\widehat{ACB})$$

$$|AD| = 6$$

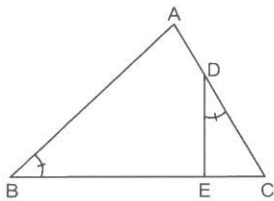
$$|EC| = 11$$

$$|AE| = |BD| = x$$

 $x = ?$

- A) 2 B) 4 C) 5 D) 6 E) 9

3.



$$m(\widehat{ABC}) = m(\widehat{EDC})$$

$$|AD| = 4$$

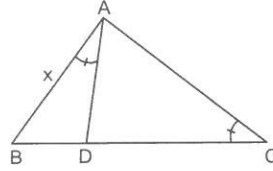
$$|DC| = 8$$

$$|EC| = 4$$

 $|BE| = ?$

- A) 28 B) 24 C) 20 D) 16 E) 12

4.



$$m(\widehat{BAD}) = m(\widehat{ACD})$$

$$|BD| = 3$$

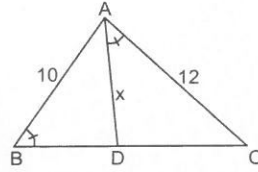
$$|DC| = 9$$

$$|AB| = x$$

 $x = ?$

- A) 10 B) 9 C) 8 D) 7 E) 6

5.



$$m(\widehat{DAC}) = m(\widehat{ABC})$$

$$|AB| = 10$$

$$|AC| = 12$$

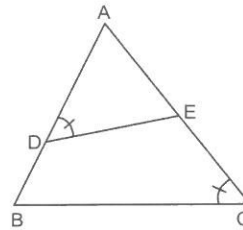
$$|BC| = 16$$

$$|AD| = x$$

 $x = ?$

- A) 5 B) $\frac{11}{2}$ C) 6 D) 7 E) $\frac{15}{2}$

6.



$$m(\widehat{ADE}) = m(\widehat{ACB})$$

$$|AE| = 7$$

$$|DE| = 7$$

$$|DB| = 3$$

$$|BC| = 11$$

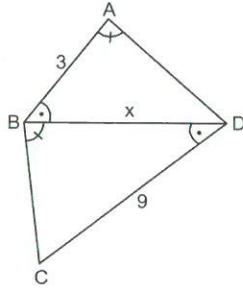
$$|AD| = x$$

 $x = ?$

- A) 6 B) 7 C) 8 D) 9 E) 10



7.

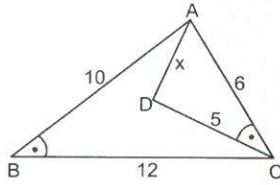


$$\begin{aligned} m(\widehat{BAD}) &= m(\widehat{DBC}) \\ m(\widehat{ABD}) &= m(\widehat{BDC}) \\ |AB| &= 3 \\ |DC| &= 9 \\ |BD| &= x \end{aligned}$$

$x = ?$

- A) 3 B) $3\sqrt{2}$ C) $3\sqrt{3}$ D) 6 E) $6\sqrt{3}$

8.

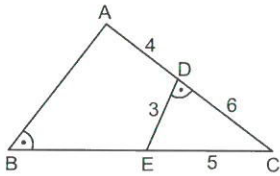


$$\begin{aligned} m(\widehat{ACD}) &= m(\widehat{ABC}) \\ |AB| &= 10 \\ |AC| &= 6 \\ |DC| &= 5 \\ |BC| &= 12 \\ |AD| &= x \end{aligned}$$

$x = ?$

- A) 1 B) 2 C) 3 D) 4 E) 5

9.

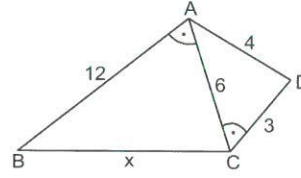


$$\begin{aligned} m(\widehat{ABC}) &= m(\widehat{EDC}) \\ |AD| &= 4 \\ |DC| &= 6 \\ |DE| &= 3 \\ |EC| &= 5 \end{aligned}$$

$|AB| + |BE| = ?$

- A) 12 B) 13 C) 14 D) 15 E) 16

10.

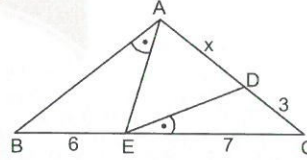


$$\begin{aligned} m(\widehat{BAC}) &= m(\widehat{ACD}) \\ |AB| &= 12 \\ |AC| &= 6 \\ |DC| &= 3 \\ |AD| &= 4 \end{aligned}$$

$x = ?$

- A) 4 B) 5 C) 6 D) 7 E) 8

11.

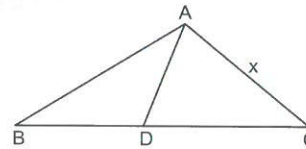


$$\begin{aligned} |AB| &= |AC| \\ m(\widehat{BAE}) &= m(\widehat{DEC}) \\ |DC| &= 3 \\ |BE| &= 6 \\ |EC| &= 7 \\ |AD| &= x \end{aligned}$$

$x = ?$

- A) 10 B) 11 C) 12 D) 13 E) 14

12.



$$\begin{aligned} |AB| &= 12 \\ |AD| &= 6 \\ |BD| &= 8 \\ |DC| &= 10 \\ |AC| &= x \end{aligned}$$

$x = ?$

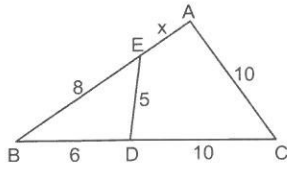
- A) 9 B) 10 C) 11 D) 12 E) 13

Cevap Anahtarı – Answer Sheet

1.B	2.B	3.C	4.E	5.E	6.C
7.C	8.C	9.B	10.E	11.B	12.A



1.

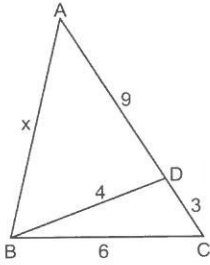


$$\begin{aligned} |AC| &= 10 \\ |ED| &= 5 \\ |EB| &= 8 \\ |BD| &= 6 \\ |DC| &= 10 \\ |AE| &= x \end{aligned}$$

$x = ?$

- A) 8 B) 7 C) 6 D) 5 E) 4

2.

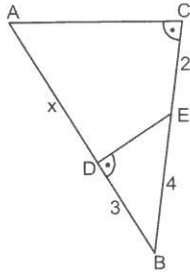


$$\begin{aligned} |AD| &= 9 \\ |DC| &= 3 \\ |BD| &= 4 \\ |BC| &= 6 \\ |AB| &= x \end{aligned}$$

$x = ?$

- A) 6 B) 8 C) 9 D) 10 E) 12

3.

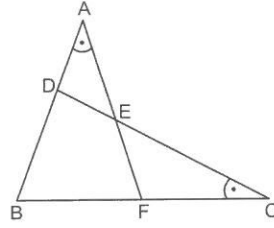


$$\begin{aligned} m(\widehat{ACB}) &= m(\widehat{EDB}) \\ |EC| &= 2 \\ |EB| &= 4 \\ |DB| &= 3 \\ |AD| &= x \end{aligned}$$

$x = ?$

- A) 10 B) 8 C) 6 D) 5 E) 4

4.

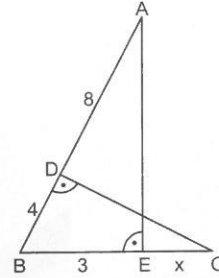


$$\begin{aligned} m(\widehat{BAF}) &= m(\widehat{DCB}) \\ |AD| &= 8 \\ |DB| &= 10 \\ |BF| &= 12 \\ |FC| &= x \end{aligned}$$

$x = ?$

- A) 3 B) 4 C) 6 D) 8 E) 9

5.

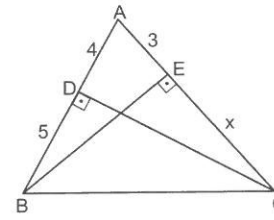


$$\begin{aligned} m(\widehat{AEB}) &= m(\widehat{BDC}) \\ |AD| &= 8 \\ |DB| &= 4 \\ |BE| &= 3 \\ |EC| &= x \end{aligned}$$

$x = ?$

- A) 9 B) 10 C) 11 D) 12 E) 13

6.



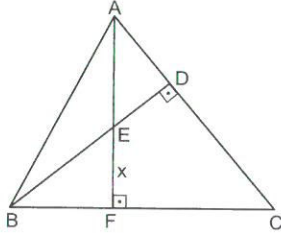
$$\begin{aligned} [BE] &\perp [AC] \\ [CD] &\perp [AB] \\ |AD| &= 4 \\ |DB| &= 5 \\ |AE| &= 3 \\ |EC| &= x \end{aligned}$$

$x = ?$

- A) 6 B) 9 C) 10 D) 12 E) 15



7.

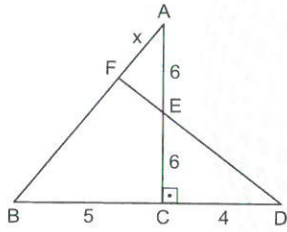


$$\begin{aligned} [BD] &\perp [AC] \\ [AF] &\perp [BC] \\ |AE| &= |BF| = 8 \\ |FC| &= 6 \\ |EF| &= x \end{aligned}$$

$x = ?$

- A) 6 B) 5 C) 4 D) 3 E) 2

8.

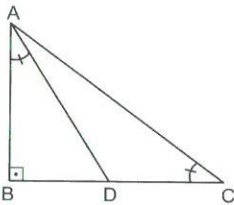


$$\begin{aligned} [AC] &\perp [BD] \\ |AE| &= 6 \\ |EC| &= 6 \\ |CD| &= 4 \\ |BC| &= 5 \\ |AF| &= x \end{aligned}$$

$x = ?$

- A) 9 B) 8 C) 6 D) 4 E) 3

9.

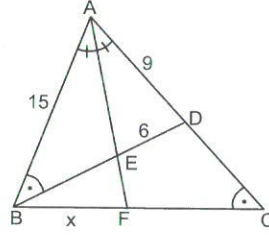


$$\begin{aligned} [AB] &\perp [BC] \\ m(\widehat{BAD}) &= m(\widehat{ACB}) \\ |AB| &= 4 \\ |DC| &= 6 \\ |AC| &= x \end{aligned}$$

$x = ?$

- A) $4\sqrt{2}$ B) $4\sqrt{5}$ C) $3\sqrt{5}$ D) $3\sqrt{2}$ E) 13

10.

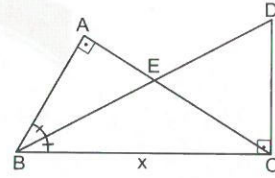


$$\begin{aligned} m(\widehat{BAF}) &= m(\widehat{FAC}) \\ m(\widehat{ABD}) &= m(\widehat{ACB}) \\ |AB| &= 15 \\ |AD| &= 9 \\ |ED| &= 6 \\ |BD| &= x \end{aligned}$$

$x = ?$

- A) 12 B) 10 C) 8 D) 6 E) 4

11.

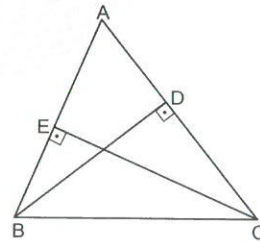


$$\begin{aligned} [BA] &\perp [AC] \\ [DC] &\perp [BC] \\ m(\widehat{ABE}) &= m(\widehat{ECB}) \\ |AE| &= 4 \\ |DC| &= 8 \\ |BC| &= x \end{aligned}$$

$x = ?$

- A) $4\sqrt{3}$ B) 6 C) $6\sqrt{3}$ D) 8 E) $8\sqrt{3}$

12.



$$\begin{aligned} [BD] &\perp [AC] \\ [CE] &\perp [AB] \\ |AE| &= 8 \\ |AD| &= 6 \\ |DC| &= 10 \\ |BE| &= x \end{aligned}$$

$x = ?$

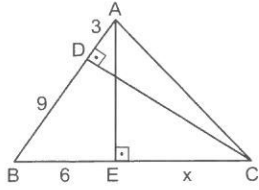
- A) 8 B) 6 C) 5 D) 4 E) 3

Cevap Anahtarı – Answer Sheet

1.E	2.B	3.D	4.A	5.E	6.B
7.C	8.D	9.B	10.B	11.E	12.D



1.

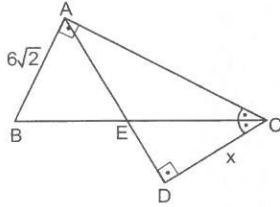


$$\begin{aligned} [CD] &\perp [AB] \\ [AE] &\perp [BC] \\ |AD| &= 3 \\ |DB| &= 9 \\ |BE| &= 6 \\ |EC| &= x \end{aligned}$$

$x = ?$

- A) 12 B) 10 C) 8 D) 6 E) 4

2.

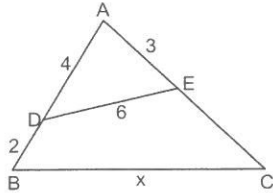


$$\begin{aligned} [BA] &\perp [AC] \\ [AD] &\perp [DC] \\ m(\widehat{ACB}) &= m(\widehat{BCD}) \\ |BE| &= |EC| \\ |AB| &= 6\sqrt{2} \\ |DC| &= x \end{aligned}$$

$x = ?$

- A) $6\sqrt{6}$ B) $6\sqrt{2}$ C) $3\sqrt{6}$ D) $3\sqrt{2}$ E) 3

3.

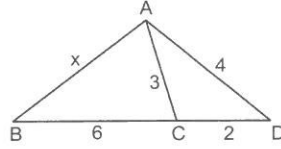


$$\begin{aligned} |AD| &= 4 \\ |AE| &= 3 \\ |DE| &= 6 \\ |AC| &= 8 \\ |DB| &= 2 \\ |BC| &= x \end{aligned}$$

$x = ?$

- A) 15 B) 12 C) 10 D) 8 E) 6

4.

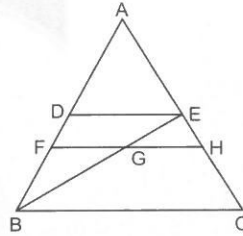


$$\begin{aligned} |AD| &= 4 \\ |AC| &= 3 \\ |CD| &= 2 \\ |BC| &= 6 \\ |AB| &= x \end{aligned}$$

$x = ?$

- A) 2 B) 3 C) 4 D) 5 E) 6

5.

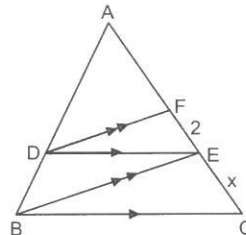


$$\begin{aligned} [DE] &\parallel [FH] \parallel [BC] \\ |FG| &= 2 \\ |DE| &= 6 \\ |BC| &= 12 \end{aligned}$$

$$\frac{|AH|}{|EC|} = ?$$

- A) $\frac{7}{3}$ B) 2 C) $\frac{5}{3}$ D) 1 E) $\frac{1}{3}$

6.



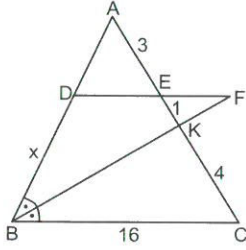
$$\begin{aligned} [DE] &\parallel [BC] \\ [DF] &\parallel [BE] \\ |AD| &= 3 \\ |DB| &= 2 \\ |FE| &= 2 \\ |EC| &= x \end{aligned}$$

$x = ?$

- A) 3 B) $\frac{8}{3}$ C) 2 D) $\frac{5}{3}$ E) 1



7.

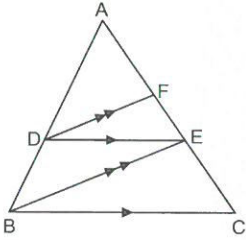


$$\begin{aligned} m(\widehat{ABF}) &= m(\widehat{FBC}) \\ [DF] // [BC] \\ |AE| &= 3 \\ |EK| &= 1 \\ |KC| &= 4 \\ |BC| &= 16 \\ |BD| &= x \end{aligned}$$

$x = ?$

- A) 10 B) 9 C) 8 D) 7 E) 6

8.

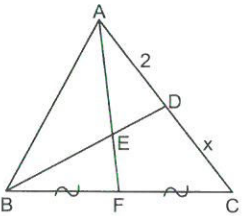


$$\begin{aligned} [DE] // [BC] \\ [DF] // [BE] \\ |AF| &= 3 \\ |DF| &= 6 \\ |BE| &= 8 \\ |EC| &= x \end{aligned}$$

$x = ?$

- A) $\frac{8}{3}$ B) $\frac{7}{3}$ C) 2 D) $\frac{5}{3}$ E) $\frac{4}{3}$

9.

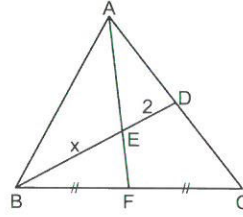


$$\begin{aligned} |BF| &= |FC| \\ |AD| &= 2 \\ \frac{|EF|}{|AE|} &= 2 \\ |DC| &= x \end{aligned}$$

$x = ?$

- A) 10 B) 8 C) 6 D) 4 E) 2

10.

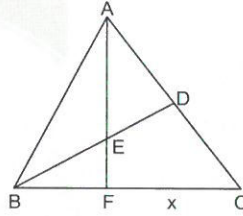


$$\begin{aligned} |BF| &= |FC| \\ \frac{|AD|}{|AC|} &= \frac{1}{4} \\ |DE| &= 2 \\ |BE| &= x \end{aligned}$$

$x = ?$

- A) 4 B) 6 C) 8 D) 10 E) 12

11.

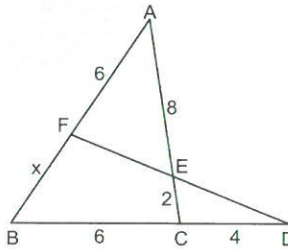


$$\begin{aligned} 4 \cdot |AD| &= |DC| \\ |BE| &= 3 \cdot |ED| \\ |BF| &= 6 \\ |FC| &= x \end{aligned}$$

$x = ?$

- A) 12 B) 10 C) 8 D) 6 E) 4

12.



$$\begin{aligned} |AF| &= |BC| = 6 \\ |AE| &= 8 \\ |EC| &= 2 \\ |CD| &= 4 \\ |FB| &= x \end{aligned}$$

$x = ?$

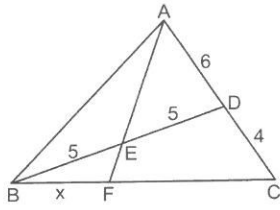
- A) $\frac{11}{4}$ B) 3 C) $\frac{7}{2}$ D) $\frac{15}{4}$ E) 4

Cevap Anahtarı – Answer Sheet

1.A	2.C	3.B	4.E	5.C	6.B
7.A	8.E	9.B	10.C	11.B	12.D



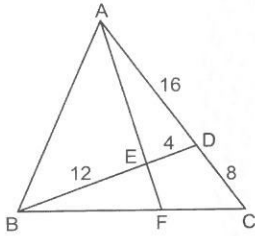
1.



x = ?

- A) 4 B) 6 C) 8 D) 10 E) 12

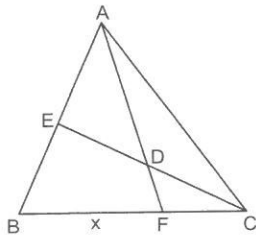
2.



x = ?

- A) 14 B) 15 C) 16 D) 17 E) 18

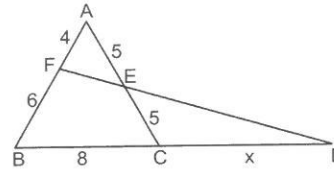
3.



x = ?

- A) 30 B) 28 C) 26 D) 23 E) 15

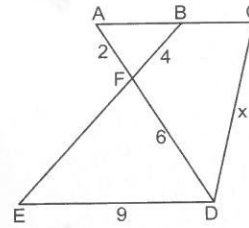
4.



x = ?

- A) 10 B) 12 C) 14 D) 16 E) 18

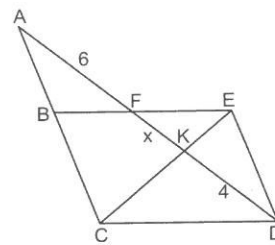
5.



x = ?

- A) 10 B) 12 C) 14 D) 15 E) 16

6.

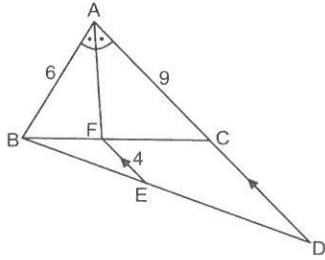


x = ?

- A) 1 B) 2 C) 3 D) 4 E) 6



7.

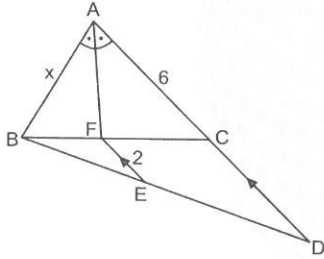


$$\begin{aligned} m(\widehat{BAF}) &= m(\widehat{FAC}) \\ [EF] &\parallel [CD] \\ |AB| &= 6 \\ |AC| &= 9 \\ |FE| &= 4 \\ |AD| &= x \end{aligned}$$

x = ?

- A) 20 B) 19 C) 18 D) 16 E) 15

8.

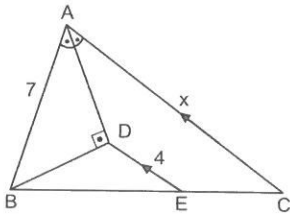


$$\begin{aligned} m(\widehat{BAF}) &= m(\widehat{FAC}) \\ [FE] &\parallel [CD] \\ |AC| &= 6 \\ |AD| &= 11 \\ |FE| &= 2 \\ |DE| &= 2 \\ |AB| &= x \end{aligned}$$

x = ?

- A) 4 B) 5 C) 6 D) 7 E) 8

9.

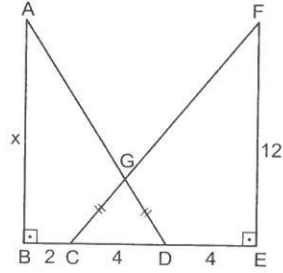


$$\begin{aligned} m(\widehat{BAD}) &= m(\widehat{DAC}) \\ [AD] &\perp [BD] \\ |AB| &= 7 \\ |DE| &= 4 \\ |AC| &= x \end{aligned}$$

x = ?

- A) 12 B) 13 C) 14 D) 15 E) 16

10.

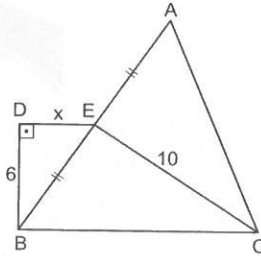


$$\begin{aligned} [AB] &\perp [BD] \\ [CE] &\perp [FE] \\ |GC| &= |GD| \\ |FE| &= 12 \\ |DE| &= 4 \\ |CD| &= 4 \\ |BC| &= 2 \\ |AB| &= x \end{aligned}$$

x = ?

- A) 6 B) 8 C) 9 D) 10 E) 12

11.

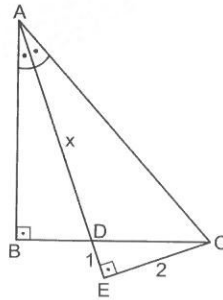


$$\begin{aligned} [DE] &\perp [DB] \\ |AE| &= |EB| \\ |AB| &= |AC| \\ |DB| &= 6 \\ |EC| &= 10 \\ |DE| &= x \end{aligned}$$

x = ?

- A) $\frac{8}{3}$ B) 3 C) $\frac{10}{3}$ D) $\frac{11}{3}$ E) 4

12.



$$\begin{aligned} [AB] &\perp [BC] \\ m(\widehat{BAD}) &= m(\widehat{DAC}) \\ |DE| &= 1 \\ |EC| &= 2 \\ |AD| &= x \end{aligned}$$

x = ?

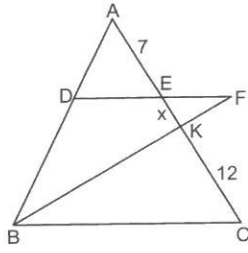
- A) 2 B) 3 C) 4 D) 5 E) 6

Cevap Anahtarı – Answer Sheet

1.B	2.E	3.A	4.D	5.E	6.B
7.B	8.A	9.D	10.C	11.A	12.B



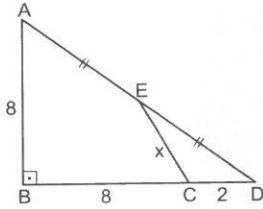
1.

 $x = ?$

- A) 5 B) 4 C) 3 D) 2 E) 1

$$\begin{aligned} [DF] // [BC] \\ |DE| = 2 \cdot |EF| \\ |AE| = 7 \\ |KC| = 12 \\ |EK| = x \end{aligned}$$

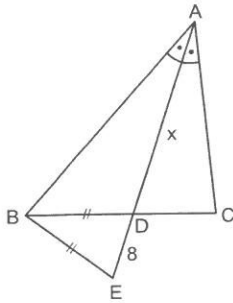
2.

 $x = ?$

- A) 3 B)
- $3\sqrt{3}$
- C) 4 D)
- $4\sqrt{3}$
- E) 5

$$\begin{aligned} [AB] \perp [BD] \\ |AE| = |ED| \\ |AB| = 8 \\ |BC| = 8 \\ |CD| = 2 \\ |EC| = x \end{aligned}$$

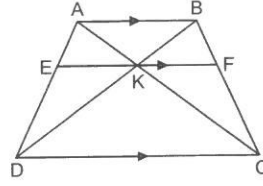
3.

 $x = ?$

- A) 24 B) 20 C) 16 D) 12 E) 8

$$\begin{aligned} 3 \cdot |AB| = 4 \cdot |AC| \\ |DE| = 8 \\ |AD| = x \end{aligned}$$

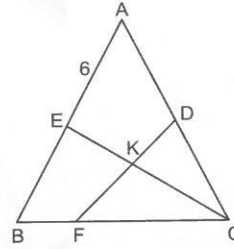
4.

 $x = ?$

- A) 4 B) 6 C) 8 D) 10 E) 12

$$\begin{aligned} [AB] // [EF] // [DC] \\ |AB| = 6 \\ |DC| = 12 \\ |KF| + |EF| = x \end{aligned}$$

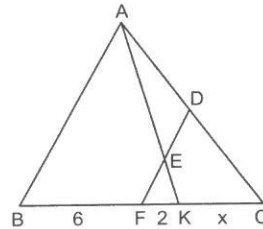
5.

 $|AB| = ?$

- A) 16 B) 14 C) 12 D) 10 E) 8

$$\begin{aligned} \frac{|AD|}{|DC|} = \frac{3}{4} \\ \frac{|KF|}{|KD|} = \frac{3}{4} \\ \frac{|EK|}{|KC|} = \frac{4}{3} \\ |AE| = 6 \end{aligned}$$

6.

 $x = ?$

- A) 3 B)
- $\frac{10}{3}$
- C) 4 D)
- $\frac{14}{3}$
- E) 5

$$\begin{aligned} [DF] // [AB] \\ |DE| = |EF| \\ |BF| = 6 \\ |FK| = 2 \\ |KC| = x \end{aligned}$$

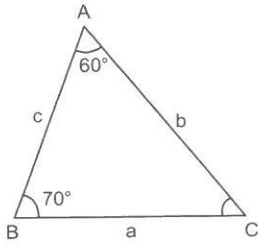
7. BÖLÜM

AÇI-KENAR BAĞINTILARI





1.



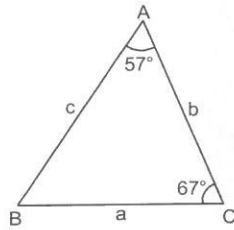
$$m(\widehat{BAC}) = 60^\circ$$

$$m(\widehat{ABC}) = 70^\circ$$

 $?? > ? > ?$

- A) $a > b > c$ B) $b > a > c$ C) $b > c > a$
D) $c > a > b$ E) $c > b > a$

2.



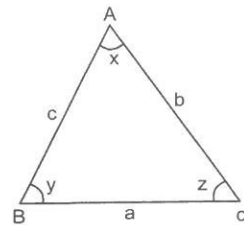
$$m(\widehat{BAC}) = 57^\circ$$

$$m(\widehat{ACB}) = 67^\circ$$

 $?? < ? < ?$

- A) $b < c < a$ B) $a < b < c$ C) $c < a < b$
D) $b < a < c$ E) $a < c < b$

3.

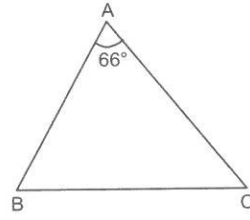


$$c < a < b$$

 $?? < ? < ?$

- A) $x < y < z$ B) $y < x < z$ C) $z < y < x$
D) $y < z < x$ E) $z < x < y$

4.



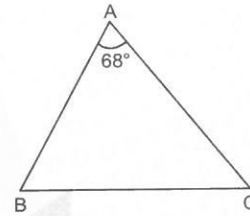
$$|AB| < |AC|$$

$$\hat{C} \in \mathbb{Z}^+$$

$$\max(\hat{C}) = ?$$

- A) 55 B) 56 C) 57 D) 58 E) 59

5.



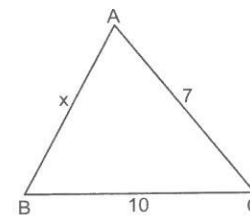
$$|AB| < |AC|$$

$$\hat{B} \in \mathbb{Z}^+$$

$$\min(\hat{B}) = ?$$

- A) 57 B) 56 C) 55 D) 54 E) 53

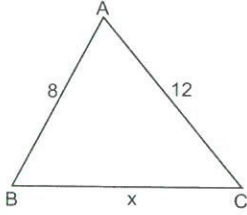
6.

 $?? < ? < ?$

- A) $3 < x < 10$ B) $7 < x < 10$ C) $7 < x < 17$
D) $3 < x < 17$ E) $3 < x < 7$



7.

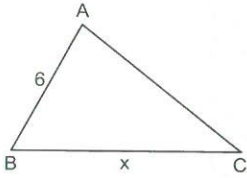


$$\begin{aligned} |AB| &= 8 \\ |AC| &= 12 \\ |BC| &= x \in \mathbb{Z}^+ \end{aligned}$$

$$\min(x) + \max(x) = ?$$

- A) 25 B) 24 C) 23 D) 22 E) 21

8.

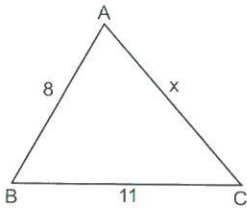


$$\begin{aligned} |AB| &= |AC| = 6 \\ |BC| &= x \\ x &\in \mathbb{Z}^+ \end{aligned}$$

$$\max(x) = ?$$

- A) 8 B) 9 C) 10 D) 11 E) 12

9.

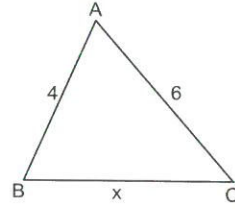


$$\begin{aligned} |AC| &< |AB| \\ |AC| &< |BC| \end{aligned}$$

$$? < ? < ?$$

- A) $3 < x < 19$ B) $8 < x < 19$ C) $8 < x < 11$
D) $3 < x < 11$ E) $3 < x < 8$

10.

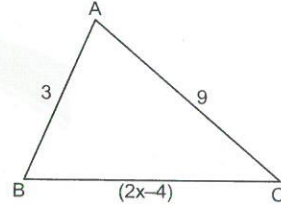


$$\begin{aligned} |AB| &= 4 \\ |AC| &= 6 \\ |BC| &= x \\ x &\in \mathbb{Z}^+ \\ m(\widehat{BAC}) &< 60^\circ \end{aligned}$$

$$\max(x) = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

11.

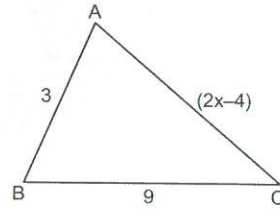


$$\begin{aligned} |AB| &= 3 \\ |AC| &= 9 \\ |BC| &= (2x-4) \end{aligned}$$

$$? < x < ?$$

- A) $6 < x < 12$ B) $5 < x < 8$ C) $6 < x < 8$
D) $5 < x < 12$ E) $3 < x < 9$

12.



$$\begin{aligned} |AB| &= 3 \\ |BC| &= 9 \\ |AC| &= (2x-4) \\ m(\widehat{B}) &> m(\widehat{A}) \end{aligned}$$

$$? < x < ?$$

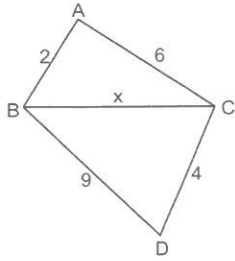
- A) $\frac{13}{2} < x < 8$ B) $5 < x < \frac{13}{2}$ C) $3 < x < 9$
D) $6 < x < 12$ E) $5 < x < 8$

Cevap Anahtarı – Answer Sheet

1.B	2.D	3.E	4.B	5.A	6.D
7.B	8.D	9.E	10.A	11.B	12.A



1.

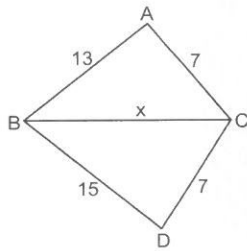


$$\begin{aligned} |AB| &= 2 \\ |AC| &= 6 \\ |BD| &= 9 \\ |DC| &= 4 \\ |BC| &= x \end{aligned}$$

$$? < x < ?$$

- A) $4 < x < 6$ B) $2 < x < 9$ C) $5 < x < 8$
D) $4 < x < 5$ E) $4 < x < 13$

2.

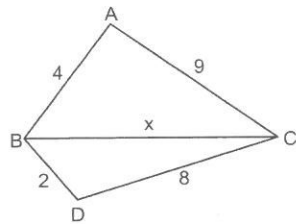


$$\begin{aligned} |AB| &= 13 \\ |AC| &= 7 \\ |BD| &= 15 \\ |DC| &= 7 \\ |BC| &= x \in \mathbb{Z}^+ \end{aligned}$$

$$\min(x) + \max(x) = ?$$

- A) 26 B) 27 C) 28 D) 29 E) 30

3.

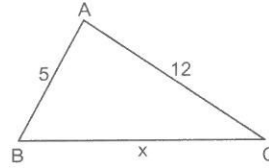


$$\begin{aligned} |AB| &= 4 \\ |AC| &= 9 \\ |BD| &= 2 \\ |DC| &= 8 \\ m(\widehat{BAC}) &< m(\widehat{ABC}) \\ |BC| &= x \in \mathbb{Z}^+ \end{aligned}$$

$$\min(x) + \max(x) = ?$$

- A) 15 B) 16 C) 17 D) 18 E) 19

4.

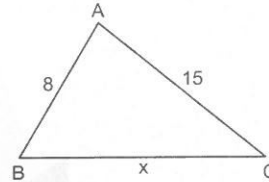


$$\begin{aligned} |AB| &= 5 \\ |AC| &= 12 \\ m(\widehat{BAC}) &> 90^\circ \\ |BC| &= x \end{aligned}$$

$$? < x < ?$$

- A) $7 < x < 17$ B) $5 < x < 17$ C) $13 < x < 17$
D) $5 < x < 12$ E) $7 < x < 13$

5.

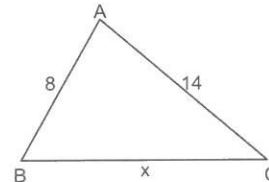


$$\begin{aligned} |AB| &= 8 \\ |AC| &= 15 \\ m(\widehat{BAC}) &< 90^\circ \\ |BC| &= x \end{aligned}$$

$$? < x < ?$$

- A) $7 < x < 17$ B) $7 < x < 23$ C) $8 < x < 17$
D) $17 < x < 23$ E) $7 < x < 23$

6.



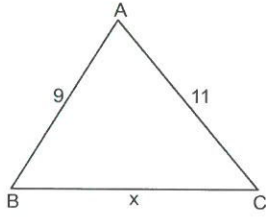
$$\begin{aligned} |AB| &= 8 \\ |AC| &= 14 \\ |BC| &= x \\ m(\widehat{BAC}) &> 90^\circ \end{aligned}$$

$$\min(x) = ?$$

- A) 14 B) 15 C) 16 D) 17 E) 18



7.

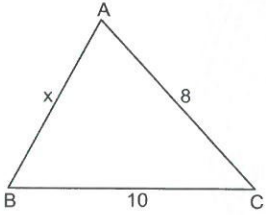


$$\begin{aligned} |AB| &= 9 \\ |AC| &= 11 \\ |BC| &= x \\ m(\widehat{BAC}) &< 90^\circ \\ x &\in \mathbb{Z} \end{aligned}$$

 $\max(x) = ?$

- A) 15 B) 14 C) 13 D) 12 E) 11

8.

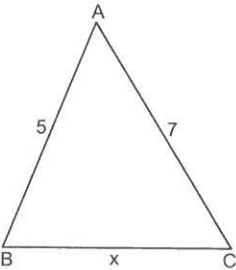


$$\begin{aligned} |AC| &= 8 \\ |BC| &= 10 \\ |AB| &= x \\ x &\in \mathbb{Z} \\ m(\widehat{BAC}) &> 90^\circ \end{aligned}$$

 $\max(x) = ?$

- A) 8 B) 7 C) 6 D) 5 E) 4

9.

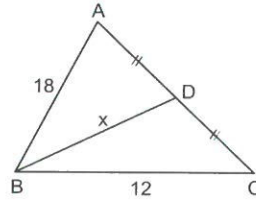


$$\begin{aligned} |AB| &= 5 \\ |AC| &= 7 \\ m(\widehat{ABC}) &> 90^\circ \\ x &\in \mathbb{Z} \end{aligned}$$

 $\max(x) = ?$

- A) 4 B) 5 C) 6 D) 7 E) 8

10.

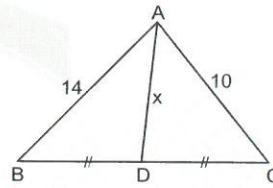


$$\begin{aligned} |AB| &= 18 \\ |BC| &= 12 \\ |BD| &= x \\ |AD| &= |DC| \end{aligned}$$

 $? < x < ?$

- A) $3 < x < 30$ B) $12 < x < 18$ C) $6 < x < 15$
D) $6 < x < 30$ E) $3 < x < 15$

11.

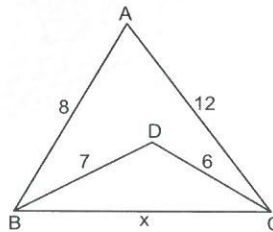


$$\begin{aligned} |AB| &= 14 \\ |AC| &= 10 \\ |BD| &= |DC| \\ |AD| &= x \end{aligned}$$

 $? < x < ?$

- A) $6 < x < 14$ B) $4 < x < 12$ C) $10 < x < 24$
D) $2 < x < 12$ E) $4 < x < 24$

12.



$$\begin{aligned} |AB| &= 8 \\ |AC| &= 12 \\ |BD| &= 7 \\ |DC| &= 6 \\ |BC| &= x \end{aligned}$$

 $? < x < ?$

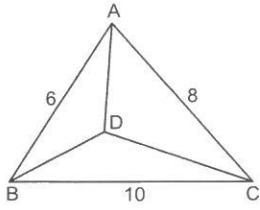
- A) $1 < x < 12$ B) $2 < x < 13$ C) $4 < x < 13$
D) $4 < x < 20$ E) $6 < x < 13$

Cevap Anahtarı – Answer Sheet

1.C	2.C	3.A	4.C	5.A	6.D
7.B	8.D	9.A	10.E	11.D	12.C



1.

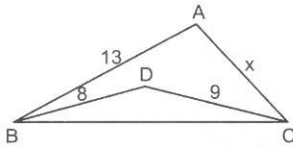


$$\begin{aligned} |AB| &= 6 \\ |AC| &= 8 \\ |BC| &= 10 \end{aligned}$$

$$\max[|AD| + |BD| + |CD|] = ?$$

- A) 23 B) 21 C) 19 D) 17 E) 15

2.

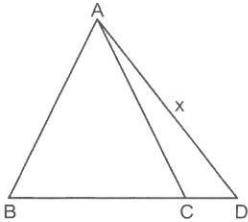


$$\begin{aligned} |AB| &= 13 \\ |BD| &= 8 \\ |DC| &= 9 \\ |AC| &= x \\ x &\in \mathbb{Z} \end{aligned}$$

$$\min(x) = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

3.

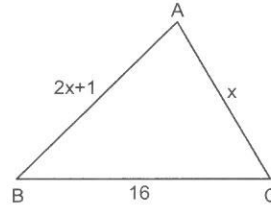


$$\begin{aligned} |AB| &= |AC| = 12 \\ |CD| &= 5 \\ |AD| &= x \end{aligned}$$

$$? < x < ?$$

- A) $5 < x < 13$ B) $5 < x < 12$ C) $13 < x < 17$
D) $7 < x < 12$ E) $7 < x < 17$

4.

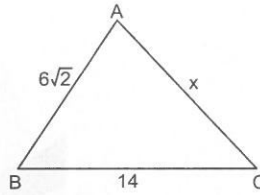


$$\begin{aligned} |BC| &= 16 \\ |AC| &= x \\ |AB| &= 2x+1 \end{aligned}$$

$$? < x < ?$$

- A) $4 < x < 16$ B) $5 < x < 12$ C) $6 < x < 15$
D) $4 < x < 12$ E) $5 < x < 15$

5.

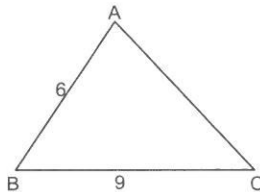


$$\begin{aligned} |AB| &= 6\sqrt{2} \\ |BC| &= 14 \\ m(\widehat{ABC}) &> 45^\circ \\ |AC| &= x \\ x &\in \mathbb{Z} \end{aligned}$$

$$\min(x) = ?$$

- A) 12 B) 11 C) 10 D) 9 E) 8

6.



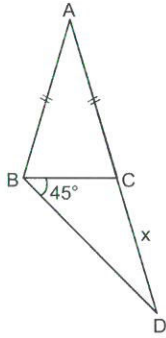
$$\begin{aligned} x &\in \mathbb{Z}^+ \\ |AB| &= 6 \\ |BC| &= 9 \\ m(\widehat{ABC}) &< 60^\circ \\ |AC| &= x \end{aligned}$$

$$\max(x) = ?$$

- A) 8 B) 7 C) 6 D) 5 E) 4



7.

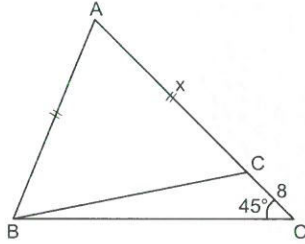


$$\begin{aligned} |AB| &= |AC| \\ m(\widehat{CBD}) &= 45^\circ \\ |CB| &= 13 \\ |CD| &= x \\ x &\in \mathbb{Z} \end{aligned}$$

 $\min(x) = ?$

- A) 16 B) 15 C) 14 D) 13 E) 12

8.

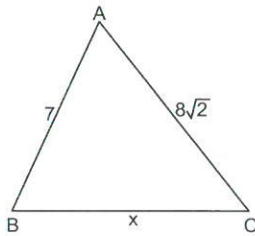


$$\begin{aligned} |AB| &= |AC| \\ |CD| &= 8 \\ m(\widehat{ADB}) &= 45^\circ \\ |AC| &= x \\ x &\in \mathbb{Z} \end{aligned}$$

 $\min(x) = ?$

- A) 1 B) 2 C) 3 D) 4 E) 5

9.

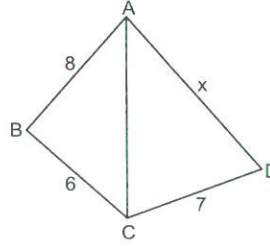


$$\begin{aligned} |AB| &= 7 \\ |AC| &= 8\sqrt{2} \\ m(\widehat{BAC}) &< 135^\circ \\ |BC| &= x \\ x &\in \mathbb{Z} \end{aligned}$$

 $\max(x) = ?$

- A) 19 B) 18 C) 17 D) 16 E) 15

10.

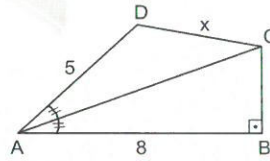


$$\begin{aligned} |AB| &= 8 \\ |BC| &= 6 \\ |CD| &= 7 \\ m(\widehat{ABC}) &> 90^\circ \\ m(\widehat{ACD}) &> 90^\circ \\ |AC| &\in \mathbb{Z} \\ |AD| &= x \in \mathbb{Z} \end{aligned}$$

 $\min(x) = ?$

- A) 13 B) 14 C) 15 D) 16 E) 17

11.

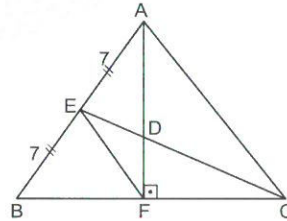


$$\begin{aligned} m(\widehat{DAC}) &= m(\widehat{CAB}) \\ [CB] &\perp [AB] \\ |DA| &= 5 \\ |AB| &= 8 \\ |DC| &= x \in \mathbb{Z} \end{aligned}$$

 $\min(x) = ?$

- A) 2 B) 3 C) 4 D) 5 E) 6

12.



$$\begin{aligned} |AE| &= |EB| \\ [AF] &\perp [BC] \\ |EC| &= x \in \mathbb{Z} \\ |FC| &= y \in \mathbb{Z} \end{aligned}$$

 $\min(x + y) = ?$

- A) 7 B) 8 C) 9 D) 10 E) 11

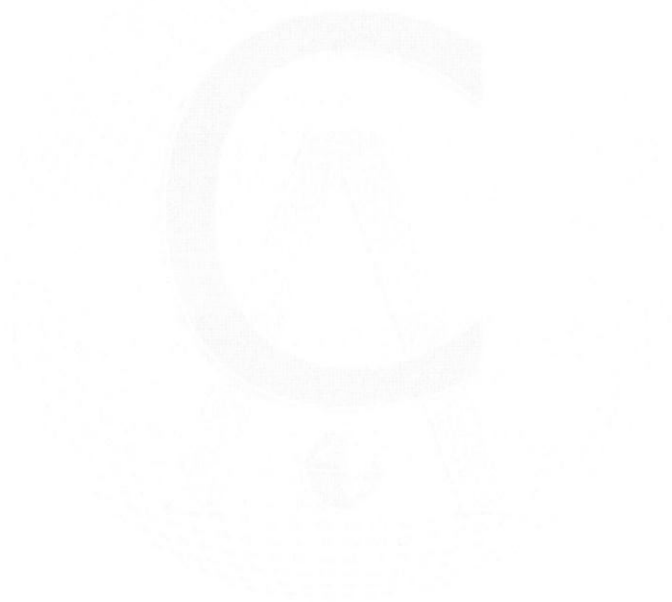
Cevap Anahtarı – Answer Sheet

1.D	2.A	3.C	4.E	5.B	6.B
7.C	8.E	9.D	10.B	11.C	12.D

8. BÖLÜM

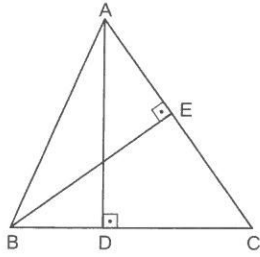
ÜÇGENDE ALAN







1.

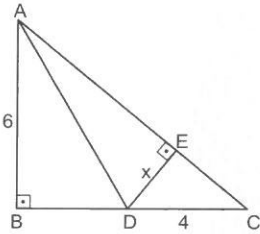


$$\begin{aligned} [AD] &\perp [BC] \\ [BE] &\perp [AC] \\ |AC| &= (3x) \text{ cm} \\ |BC| &= (2x+1) \text{ cm} \\ |AD| &= 4 \text{ cm} \\ |BE| &= 3 \text{ cm} \end{aligned}$$

$$x = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

2.

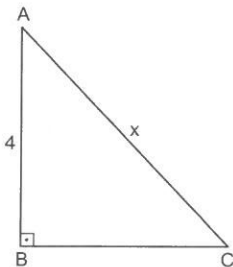


$$\begin{aligned} [AB] &\perp [BC] \\ [DE] &\perp [AC] \\ |AB| &= 6 \text{ cm} \\ |DC| &= 4 \text{ cm} \\ |DE| &= x \text{ cm} \\ |AC| &= 8 \text{ cm} \end{aligned}$$

$$x = ?$$

- A) 10 B) 8 C) 6 D) 5 E) 3

3.

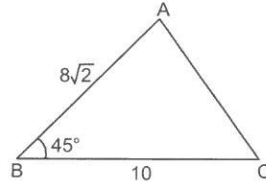


$$\begin{aligned} [AB] &\perp [BC] \\ |AD| &= 4 \text{ cm} \\ s(\triangle ABC) &= 10 \text{ cm}^2 \\ |AC| &= x \end{aligned}$$

$$x = ?$$

- A) $3\sqrt{5}$ B) $\sqrt{43}$ C) $\sqrt{41}$ D) 6 E) 3

4.

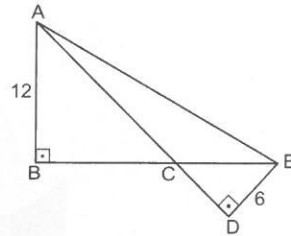


$$\begin{aligned} m(\widehat{ABC}) &= 45^\circ \\ |AB| &= 8\sqrt{2} \text{ cm} \\ |BC| &= 10 \text{ cm} \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) 30 B) 35 C) 40 D) 45 E) 50

5.

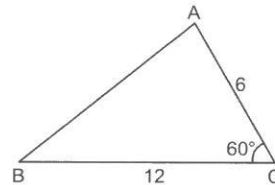


$$\begin{aligned} [AB] &\perp [BC] \\ [ED] &\perp [AD] \\ C \in [AD] \\ |AB| &= 12 \text{ cm} \\ |DE| &= 6 \text{ cm} \\ s(\triangle CED) &= 24 \text{ cm}^2 \end{aligned}$$

$$s(\triangle ACE) = ? \text{ cm}^2$$

- A) 60 B) 65 C) 70 D) 75 E) 80

6.



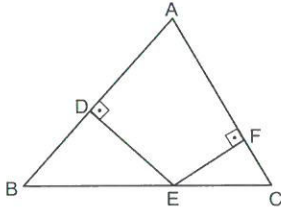
$$\begin{aligned} m(\widehat{ACB}) &= 60^\circ \\ |AC| &= 6 \text{ cm} \\ |BC| &= 12 \text{ cm} \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) $12\sqrt{3}$ B) 18 C) 24 D) $18\sqrt{3}$ E) 36



7.

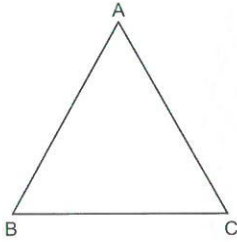


$[ED] \perp [AB]$
 $[EF] \perp [AC]$
 $|AB| = 16 \text{ cm}$
 $|AC| = 12 \text{ cm}$
 $|DE| = 4 \text{ cm}$
 $|EF| = 6 \text{ cm}$

$s(\triangle ABC) = ? \text{ cm}^2$

- A) 60 B) 62 C) 64 D) 66 E) 68

8.

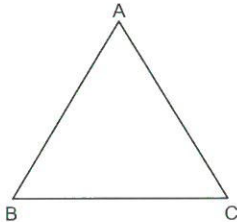


$|AB| = |AC| = 13 \text{ cm}$
 $|BC| = 10 \text{ cm}$

$s(\triangle ABC) = ? \text{ cm}^2$

- A) 60 B) 64 C) 68 D) 72 E) 76

9.

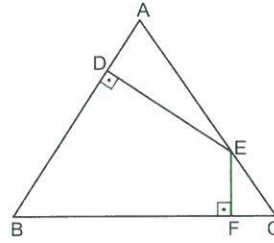


$|AB| = |AC| = 17 \text{ cm}$
 $|BC| = 16 \text{ cm}$

$s(\triangle ABC) = ? \text{ cm}^2$

- A) 156 B) 140 C) 132 D) 120 E) 108

10.



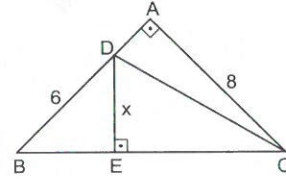
$[ED] \perp [AB]$
 $[EF] \perp [AC]$
 $|AB| = 8 \text{ cm}$
 $|BC| = 12 \text{ cm}$
 $|DE| = 4 \text{ cm}$
 $|EF| = x \text{ cm}$

$s(\triangle ABC) = 34 \text{ cm}^2$

$x = ?$

- A) 2 B) 3 C) 4 D) 5 E) 6

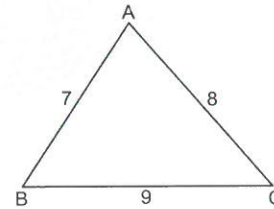
11.



$[BA] \perp [AC]$
 $|AC| = 8 \text{ cm}$
 $|DB| = 6 \text{ cm}$
 $|BC| = 12 \text{ cm}$
 $|DE| = x \text{ cm}$

- A) 3 B) 4 C) 5 D) 6 E) 8

12.



$|AB| = 7 \text{ cm}$
 $|AC| = 8 \text{ cm}$
 $|BC| = 9 \text{ cm}$

$s(\triangle ABC) = ? \text{ cm}^2$

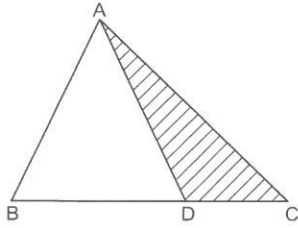
- A) 6 B) 12 C) $6\sqrt{5}$ D) $12\sqrt{5}$ E) 24

Cevap Anahtarı – Answer Sheet

1.B	2.E	3.C	4.C	5.A	6.D
7.E	8.A	9.D	10.B	11.B	12.D



1.



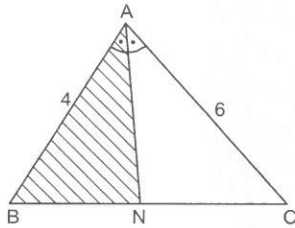
$$5. |BD| = 3 \cdot |BC|$$

$$s(\triangle ABC) = 160 \text{ cm}^2$$

$$s(\triangle ADC) = ? \text{ cm}^2$$

- A) 76 B) 72 C) 68 D) 64 E) 60

2.



$$m(\widehat{BAN}) = m(\widehat{NAC})$$

$$|AB| = 4 \text{ cm}$$

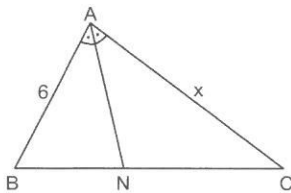
$$|AC| = 6 \text{ cm}$$

$$s(\triangle ABC) = 40 \text{ cm}^2$$

$$s(\triangle ABN) = ? \text{ cm}^2$$

- A) 16 B) 18 C) 20 D) 22 E) 24

3.



$$m(\widehat{BAN}) = m(\widehat{NAC})$$

$$|AB| = 6 \text{ cm}$$

$$s(\triangle ABC) = 36 \text{ cm}^2$$

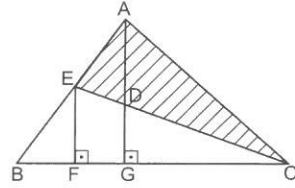
$$s(\triangle ANC) = 24 \text{ cm}^2$$

$$|AC| = x \text{ cm}$$

$$x = ?$$

- A) 4 B) 6 C) 8 D) 10 E) 12

4.



$$[EF] \perp [BC]$$

$$[AG] \perp [BC]$$

$$|AG| = 12 \text{ cm}$$

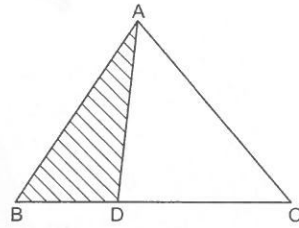
$$|EF| = 8 \text{ cm}$$

$$|BC| = 18 \text{ cm}$$

$$s(\triangle AEC) = ? \text{ cm}^2$$

- A) 36 B) 40 C) 44 D) 48 E) 52

5.



$$|AD| = |AC| = 5 \text{ cm}$$

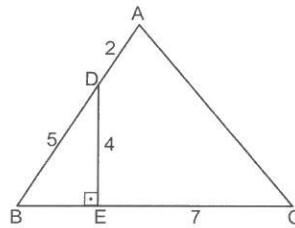
$$|DC| = 6 \text{ cm}$$

$$|BD| = 3 \text{ cm}$$

$$s(\triangle ABD) = ? \text{ cm}^2$$

- A) 6 B) 8 C) 10 D) 12 E) 14

6.



$$[DE] \perp [BC]$$

$$|DE| = 4 \text{ cm}$$

$$|DB| = 5 \text{ cm}$$

$$|EC| = 7 \text{ cm}$$

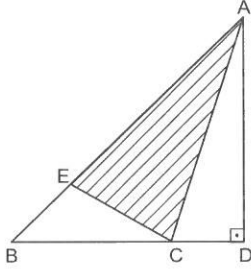
$$|AD| = 2 \text{ cm}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) 20 B) 24 C) 28 D) 32 E) 36



7.

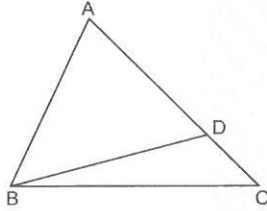


$$\begin{aligned} [AD] &\perp [BD] \\ |AD| &= 15 \text{ cm} \\ |BC| &= 8 \text{ cm} \\ \frac{|AE|}{|BE|} &= \frac{3}{2} \end{aligned}$$

$$s(\triangle AEC) = ? \text{ cm}^2$$

- A) 32 B) 36 C) 40 D) 44 E) 48

8.

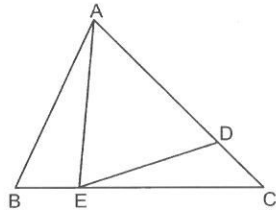


$$\begin{aligned} s(\triangle ABC) &= 45 \text{ cm}^2 \\ s(\triangle BDC) &= 18 \text{ cm}^2 \end{aligned}$$

$$\frac{|AD|}{|AC|} = ?$$

- A) $\frac{2}{3}$ B) $\frac{3}{5}$ C) $\frac{4}{5}$ D) $\frac{4}{9}$ E) $\frac{3}{7}$

9.

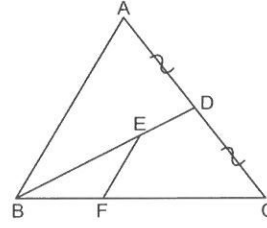


$$\begin{aligned} \frac{|EC|}{|BE|} &= \frac{4}{3} \\ \frac{|AD|}{|AC|} &= \frac{4}{5} \\ s(\triangle EDC) &= 16 \text{ cm}^2 \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) 120 B) 130 C) 140 D) 150 E) 160

10.

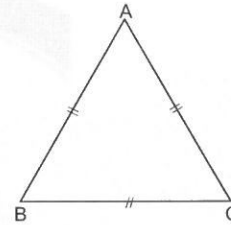


$$\begin{aligned} |AD| &= |DC| \\ \frac{|BF|}{|FC|} &= \frac{1}{2} \\ \frac{|BE|}{|ED|} &= 3 \\ s(\triangle ABC) &= 48 \text{ cm}^2 \end{aligned}$$

$$s(\triangle BEF) = ? \text{ cm}^2$$

- A) 4 B) 5 C) 6 D) 7 E) 8

11.

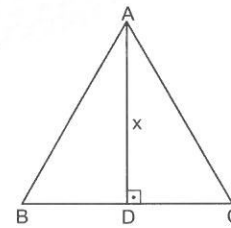


$$\begin{aligned} |AB| &= |AC| = |BC| \\ |AC| &= 8 \text{ cm} \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) $16\sqrt{3}$ B) 24 C) $12\sqrt{3}$ D) 48 E) $24\sqrt{3}$

12.



$$\begin{aligned} |AB| &= |AC| = |BC| \\ s(\triangle ABC) &= 36\sqrt{3} \text{ cm}^2 \\ |AD| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

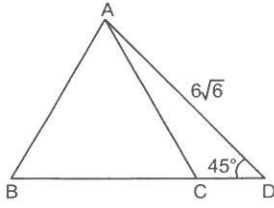
- A) 18 B) $9\sqrt{3}$ C) 12 D) $6\sqrt{3}$ E) 6

Cevap Anahtarı – Answer Sheet

1.D	2.A	3.E	4.A	5.A	6.C
7.B	8.B	9.C	10.C	11.A	12.D



1.

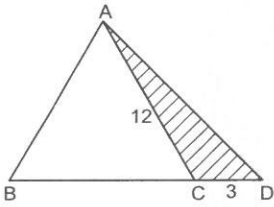


$$\begin{aligned} m(\widehat{ADB}) &= 45^\circ \\ |AB| &= |AC| = |BC| \\ |AD| &= 6\sqrt{6} \text{ cm} \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) $24\sqrt{3}$ B) $27\sqrt{3}$ C) $30\sqrt{3}$
D) $32\sqrt{3}$ E) $36\sqrt{3}$

2.

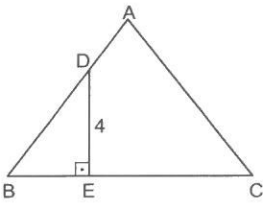


$$\begin{aligned} |AB| &= |AC| = |BC| \\ |AC| &= 12 \text{ cm} \\ |CD| &= 3 \text{ cm} \end{aligned}$$

$$s(\triangle ACD) = ? \text{ cm}^2$$

- A) $6\sqrt{3}$ B) $8\sqrt{3}$ C) $9\sqrt{3}$ D) $12\sqrt{3}$ E) $15\sqrt{3}$

3.

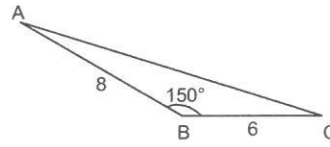


$$\begin{aligned} [DE] &\perp [BC] \\ |DE| &= 4 \text{ cm} \\ |BC| &= 18 \text{ cm} \\ \frac{|AD|}{|AB|} &= \frac{1}{3} \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) 54 B) 48 C) 45 D) 42 E) 36

4.

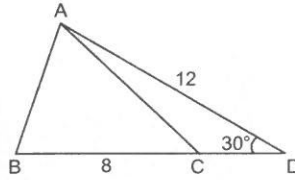


$$\begin{aligned} m(\widehat{ABC}) &= 150^\circ \\ |AB| &= 8 \text{ cm} \\ |BC| &= 6 \text{ cm} \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) 8 B) 10 C) 12 D) 15 E) 18

5.

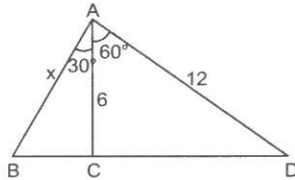


$$\begin{aligned} m(\widehat{ADB}) &= 30^\circ \\ |AD| &= 12 \text{ cm} \\ |BC| &= 8 \text{ cm} \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) 48 B) 32 C) 28 D) 24 E) 20

6.



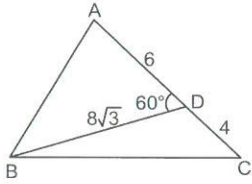
$$\begin{aligned} m(\widehat{BAC}) &= 30^\circ \\ m(\widehat{CAD}) &= 60^\circ \\ |AC| &= 6 \text{ cm} \\ |AD| &= 12 \text{ cm} \\ |AB| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

- A) $2\sqrt{3}$ B) $4\sqrt{3}$ C) $6\sqrt{3}$ D) $8\sqrt{3}$ E) $10\sqrt{3}$



7.

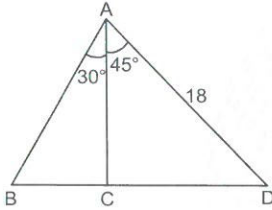


$$\begin{aligned} m(\widehat{ADB}) &= 60^\circ \\ |AD| &= 6 \text{ cm} \\ |DC| &= 4 \text{ cm} \\ |BD| &= 8\sqrt{3} \text{ cm} \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) 56 B) 60 C) 64 D) 68 E) 72

8.

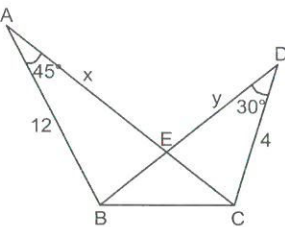


$$\begin{aligned} m(\widehat{BAC}) &= 30^\circ \\ m(\widehat{CAD}) &= 45^\circ \\ |AD| &= 18 \text{ cm} \\ |AB| &= 6 \text{ cm} \end{aligned}$$

$$\frac{s(\triangle ACD)}{s(\triangle ABC)} = ?$$

- A) $6\sqrt{3}$ B) $3\sqrt{2}$ C) $9\sqrt{3}$ D) $12\sqrt{2}$ E) $12\sqrt{3}$

9.

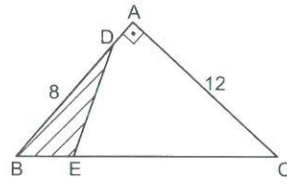


$$\begin{aligned} m(\widehat{BAC}) &= 45^\circ \\ m(\widehat{BDC}) &= 30^\circ \\ s(\triangle ABC) &= s(\triangle BDC) \\ |AB| &= 12 \text{ cm} \\ |DC| &= 4 \text{ cm} \\ |DE| &= y \text{ cm} \\ |AE| &= x \text{ cm} \end{aligned}$$

$$\frac{y}{x} = ?$$

- A) 3 B) $2\sqrt{2}$ C) $3\sqrt{2}$ D) $3\sqrt{3}$ E) 6

10.

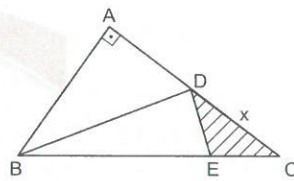


$$\begin{aligned} [BA] &\perp [AC] \\ |AC| &= 12 \text{ cm} \\ |BD| &= 8 \text{ cm} \\ |EC| &= 3 \cdot |BE| \end{aligned}$$

$$s(\triangle BDE) = ? \text{ cm}^2$$

- A) 12 B) 14 C) 16 D) 18 E) 20

11.

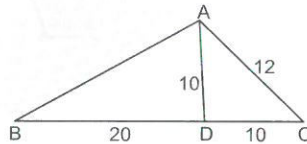


$$\begin{aligned} [AB] &\perp [AC] \\ \frac{|EC|}{|EB|} &= \frac{2}{3} \\ |AB| &= 15 \text{ cm} \\ s(\triangle DEC) &= 12 \text{ cm}^2 \\ |DC| &= x \text{ cm} \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) 8 B) 7 C) 6 D) 5 E) 4

12.



$$\begin{aligned} |AD| &= |DC| = 10 \text{ cm} \\ |AC| &= 12 \text{ cm} \\ |BD| &= 20 \text{ cm} \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

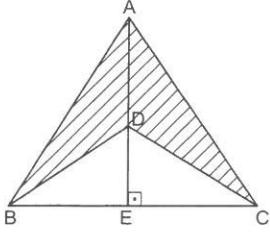
- A) 152 B) 144 C) 140 D) 136 E) 128

Cevap Anahtarı – Answer Sheet

1.E	2.C	3.A	4.C	5.D	6.B
7.B	8.B	9.C	10.A	11.E	12.B



1.

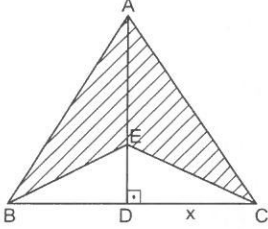


$[AE] \perp [BC]$
 $|AD| = 8 \text{ cm}$
 $|BC| = 18 \text{ cm}$

$s(ABCD) = ? \text{ cm}^2$

A) 64 B) 72 C) 76 D) 80 E) 88

2.

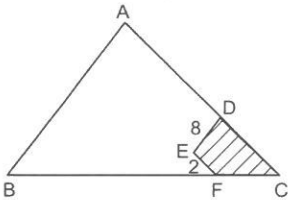


$[AD] \perp [BC]$
 $|BC| = 18 \text{ cm}$
 $\frac{s(\triangle ABE)}{s(\triangle AEC)} = 2$
 $|DC| = x \text{ cm}$

$x = ?$

A) 6 B) 8 C) 10 D) 12 E) 14

3.

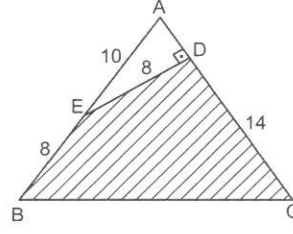


$DE \parallel AB$
 $EF \parallel AC$
 $|AB| = |AC| = |BC|$
 $|DE| = 8 \text{ cm}$
 $|EF| = 2 \text{ cm}$

$s(DEF) = ? \text{ cm}^2$

A) $26\sqrt{3}$ B) $25\sqrt{3}$ C) $24\sqrt{3}$
D) $23\sqrt{3}$ E) $22\sqrt{3}$

4.

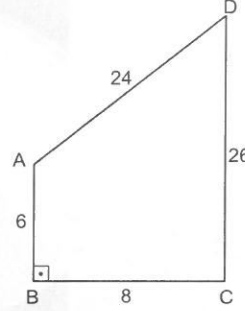


$[ED] \perp [AC]$
 $|AE| = 10 \text{ cm}$
 $|ED| = 8 \text{ cm}$
 $|DC| = 14 \text{ cm}$
 $|EB| = 8 \text{ cm}$

$s(EDCB) = ? \text{ cm}^2$

A) 156 B) 144 C) 132 D) 120 E) 116

5.

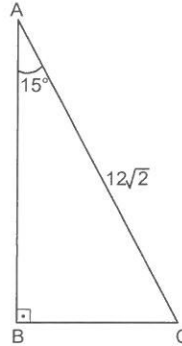


$[AB] \perp [BC]$
 $|AB| = 6 \text{ cm}$
 $|BC| = 8 \text{ cm}$
 $|AD| = 24 \text{ cm}$
 $|DC| = 26 \text{ cm}$

$s(ABCD) = ? \text{ cm}^2$

A) 128 B) 132 C) 136 D) 144 E) 150

6.



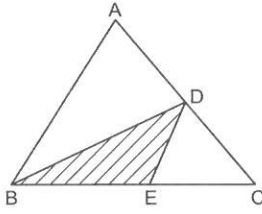
$[AB] \perp [BC]$
 $m(\angle BAC) = 15^\circ$
 $|AC| = 12\sqrt{2} \text{ cm}$

$s(\triangle ABC) = ? \text{ cm}^2$

A) 52 B) 48 C) 42 D) 40 E) 36



7.

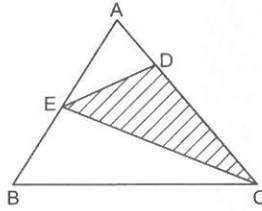


$$\begin{aligned} |AD| &= |DC| \\ |BE| &= 2 \cdot |EC| \\ s(\triangle ABC) &= 42 \text{ cm}^2 \end{aligned}$$

$$s(\triangle BDE) = ? \text{ cm}^2$$

- A) 14 B) 18 C) 20 D) 24 E) 28

8.

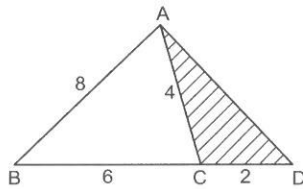


$$\begin{aligned} \frac{|DC|}{|AD|} &= \frac{4}{3} \\ \frac{|AE|}{|EB|} &= \frac{3}{2} \\ s(\triangle EDC) &= 24 \text{ cm}^2 \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) 60 B) 64 C) 68 D) 70 E) 72

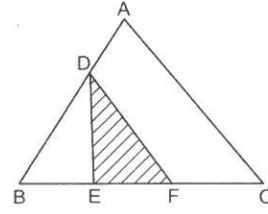
9.



$$\begin{aligned} |AB| &= 8 \text{ cm} \\ |AC| &= 4 \text{ cm} \\ |BC| &= 6 \text{ cm} \\ |CD| &= 2 \text{ cm} \end{aligned}$$

- A) $5\sqrt{15}$ B) $4\sqrt{15}$ C) $3\sqrt{15}$
D) $2\sqrt{15}$ E) $\sqrt{15}$

10.

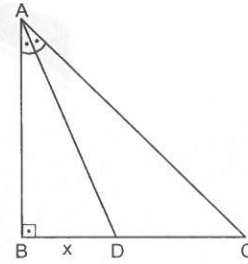


$$\begin{aligned} \frac{|AD|}{|DB|} &= \frac{1}{2} \\ \frac{|EF|}{|BC|} &= \frac{3}{10} \\ s(\triangle DEF) &= 18 \text{ cm}^2 \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) 60 B) 72 C) 84 D) 90 E) 108

11.

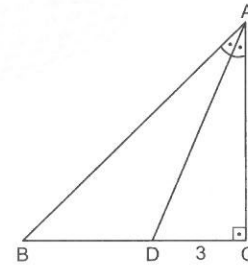


$$\begin{aligned} [AB] &\perp [BC] \\ m(\widehat{BAD}) &= m(\widehat{DAC}) \\ s(\triangle ABC) &= 24 \text{ cm}^2 \\ |AB| + |AC| &= 12 \text{ cm} \\ |BD| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

- A) 2 B) 3 C) 4 D) 5 E) 6

12.



$$\begin{aligned} [AC] &\perp [BC] \\ m(\widehat{BAD}) &= m(\widehat{DAC}) \\ |DC| &= 3 \text{ cm} \\ s(\triangle ABC) &= 24 \text{ cm}^2 \end{aligned}$$

$$|AB| + |AC| = ? \text{ cm}$$

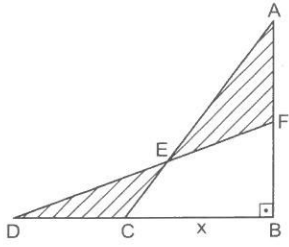
- A) 12 B) 16 C) 18 D) 20 E) 24

Cevap Anahtarı – Answer Sheet

1.B	2.A	3.C	4.D	5.D	6.E
7.A	8.D	9.E	10.D	11.C	12.B



1.



$$[AB] \perp [BD]$$

$$s(\triangle DCE) = s(\triangle AEF)$$

$$|DC| = 6 \text{ cm}$$

$$|FB| = 2 \text{ cm}$$

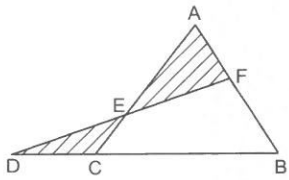
$$|AF| = 4 \text{ cm}$$

$$|CB| = x \text{ cm}$$

$$x = ?$$

- A) 5 B) 4 C) 3 D) 2 E) 1

2.



$$s(\triangle AEF) = s(\triangle DEF)$$

$$|DC| = 4 \text{ cm}$$

$$|BC| = 8 \text{ cm}$$

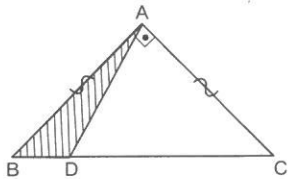
$$|FB| = 6 \text{ cm}$$

$$|AF| = x \text{ cm}$$

$$x = ?$$

- A) 2 B) 3 C) 4 D) 5 E) 6

3.



$$[AD] \perp [AC]$$

$$|AB| = |AC|$$

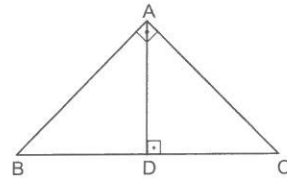
$$|BD| = 5 \text{ cm}$$

$$|DC| = 13 \text{ cm}$$

$$s(\triangle ABD) = ? \text{ cm}^2$$

- A) 15 B) 14 C) 12 D) 10 E) 9

4.



$$[BA] \perp [AC]$$

$$[AD] \perp [BC]$$

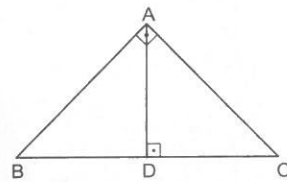
$$|AB| = 6 \text{ cm}$$

$$|BD| = 4 \text{ cm}$$

$$s(\triangle ADC) = ? \text{ cm}^2$$

- A) $2\sqrt{5}$ B) $3\sqrt{5}$ C) $4\sqrt{5}$ D) $5\sqrt{5}$ E) $6\sqrt{5}$

5.



$$[AB] \perp [AC]$$

$$[AD] \perp [BC]$$

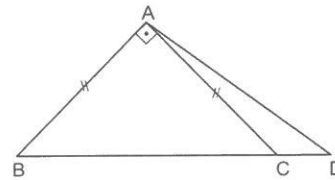
$$|DC| = 3 \cdot |BD|$$

$$|AB| = 6 \text{ cm}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) $10\sqrt{3}$ B) $12\sqrt{3}$ C) $14\sqrt{3}$
D) $16\sqrt{3}$ E) $18\sqrt{3}$

6.



$$[BA] \perp [AC]$$

$$|BC| = 12 \text{ cm}$$

$$|CD| = 4 \text{ cm}$$

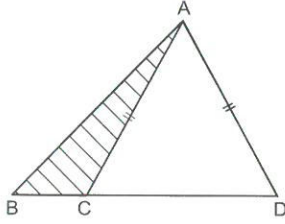
$$|AB| = |AC|$$

$$s(\triangle ACD) = ? \text{ cm}^2$$

- A) 12 B) 15 C) 18 D) 20 E) 24



7.

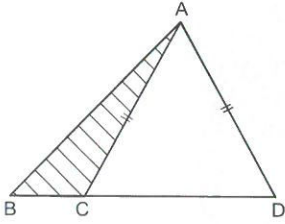


$$\begin{aligned} |AC| &= |AD| \\ |AB| &= 17 \text{ cm} \\ |BC| &= 9 \text{ cm} \\ |DC| &= 12 \text{ cm} \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) 28 B) 32 C) 36 D) 40 E) 44

8.

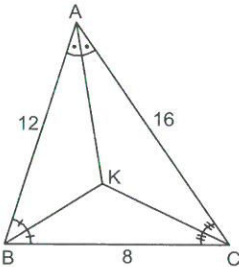


$$\begin{aligned} |AC| &= |AD| \\ |AB| &= 13 \text{ cm} \\ |BC| &= 4 \text{ cm} \\ |DC| &= 16 \text{ cm} \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) 9 B) 10 C) 12 D) 15 E) 16

9.

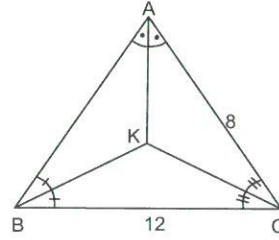


$$\begin{aligned} |AB| &= 12 \text{ cm} \\ |AC| &= 16 \text{ cm} \\ |BC| &= 8 \text{ cm} \end{aligned}$$

$$\frac{s(\triangle AKC)}{s(\triangle ABC)} = ?$$

- A) $\frac{4}{9}$ B) $\frac{1}{2}$ C) $\frac{4}{7}$ D) $\frac{8}{15}$ E) $\frac{16}{35}$

10.

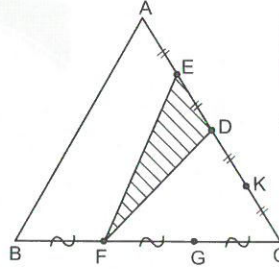


$$\begin{aligned} |AC| &= 8 \text{ cm} \\ |BC| &= 12 \text{ cm} \\ s(\triangle KBC) &= 9 \text{ cm}^2 \end{aligned}$$

$$s(\triangle AKC) = ? \text{ cm}^2$$

- A) 3 B) 4 C) 5 D) 6 E) 7

11.

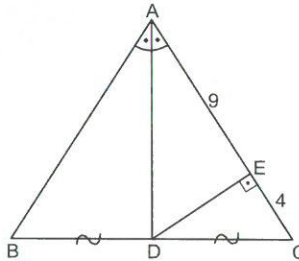


$$\begin{aligned} |AE| &= |ED| = |DK| = |KC| \\ |BF| &= |FG| = |GC| \\ s(\triangle EDF) &= 9 \text{ cm}^2 \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) 36 B) 40 C) 45 D) 50 E) 54

12.



$$\begin{aligned} m(\widehat{BAD}) &= m(\widehat{DAC}) \\ |EC| &= 9 \text{ cm} \\ |AE| &= 4 \text{ cm} \\ |BD| &= |DC| \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

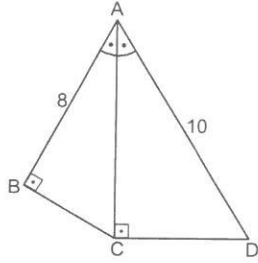
- A) 84 B) 78 C) 69 D) 65 E) 52

Cevap Anahtarı – Answer Sheet

1.C	2.B	3.A	4.D	5.E	6.A
7.C	8.B	9.A	10.D	11.E	12.B



1.

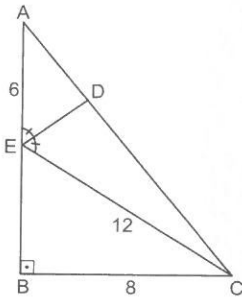


$$\begin{aligned} [AB] &\perp [BC] \\ [AC] &\perp [CD] \\ m(\widehat{BAC}) &= m(\widehat{CAD}) \\ |AB| &= 8 \text{ cm} \\ |AD| &= 10 \text{ cm} \end{aligned}$$

$$s(ABCD) = ? \text{ cm}^2$$

- A) 28 B) 30 C) 32 D) 36 E) 40

2.

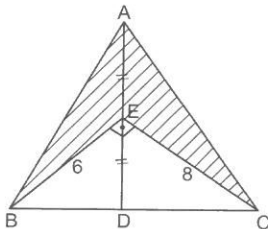


$$\begin{aligned} [AB] &\perp [BC] \\ m(\widehat{AED}) &= m(\widehat{DEC}) \\ |AE| &= 6 \text{ cm} \\ |EC| &= 12 \text{ cm} \\ |BC| &= 8 \text{ cm} \end{aligned}$$

$$s(\triangle DEC) = ? \text{ cm}^2$$

- A) 24 B) 20 C) 16 D) 12 E) 8

3.

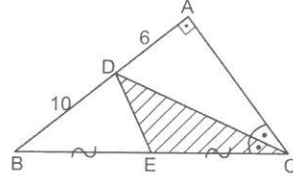


$$\begin{aligned} [BE] &\perp [EC] \\ |AE| &= |ED| \\ |BE| &= 6 \text{ cm} \\ |EC| &= 8 \text{ cm} \end{aligned}$$

$$s(ABEC) = ? \text{ cm}^2$$

- A) 16 B) 24 C) 32 D) 40 E) 48

4.

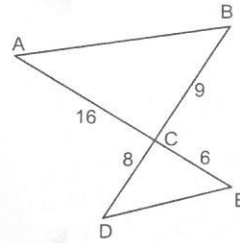


$$\begin{aligned} [BA] &\perp [AC] \\ m(\widehat{ACD}) &= m(\widehat{DCB}) \\ |BE| &= |EC| \\ |AD| &= 6 \text{ cm} \\ |BD| &= 10 \text{ cm} \end{aligned}$$

$$s(\triangle DEC) = ? \text{ cm}^2$$

- A) 15 B) 24 C) 30 D) 36 E) 48

5.

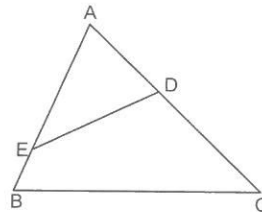


$$\begin{aligned} |AC| &= 16 \text{ cm} \\ |BC| &= 9 \text{ cm} \\ |DC| &= 8 \text{ cm} \\ |CE| &= 6 \text{ cm} \\ s(\triangle ABC) &= 72 \text{ cm}^2 \end{aligned}$$

$$s(\triangle DCE) = ? \text{ cm}^2$$

- A) 24 B) 28 C) 32 D) 36 E) 40

6.



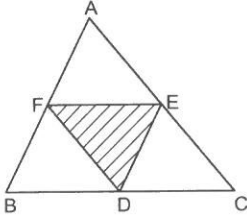
$$\begin{aligned} \frac{|AE|}{|EB|} &= 3 \\ \frac{|DC|}{|AD|} &= 2 \\ s(\triangle ADE) &= 8 \text{ cm}^2 \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) 16 B) 24 C) 32 D) 40 E) 48



7.

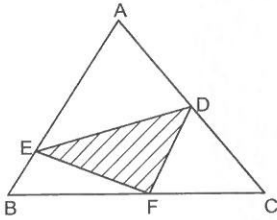


$$\begin{aligned} |FA| &= \frac{|BF|}{3} \\ |BD| &= \frac{|DC|}{2} \\ |AE| &= 2|EC| \end{aligned}$$

$$\frac{s(\triangle ABC)}{s(\triangle FDE)} = ?$$

- A) $\frac{13}{36}$ B) $\frac{11}{36}$ C) $\frac{13}{24}$ D) $\frac{11}{24}$ E) $\frac{9}{29}$

8.

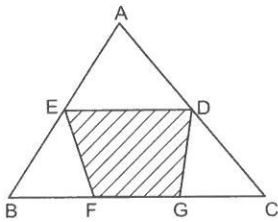


$$\begin{aligned} |BF| &= |FC| \\ |DC| &= 2|AD| \\ |AE| &= 3|EB| \\ s(\triangle ABC) &= 72 \text{ cm}^2 \end{aligned}$$

$$s(\triangle EDF) = ? \text{ cm}^2$$

- A) 12 B) 24 C) 16 D) 18 E) 21

9.

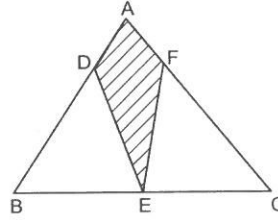


$$\begin{aligned} |BF| &= |FG| = |GC| \\ \frac{|AD|}{|DC|} &= 3 \\ |BE| &= 2|AE| \\ s(\triangle ABC) &= 108 \text{ cm}^2 \end{aligned}$$

$$s(\text{DEFG}) = ? \text{ cm}^2$$

- A) 36 B) 39 C) 42 D) 45 E) 48

10.

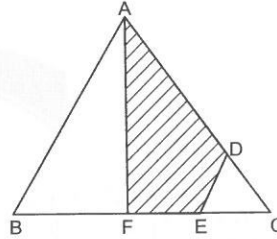


$$\begin{aligned} |BD| &= 3|DA| \\ |BE| &= |EC| \\ |AC| &= 3|AF| \\ s(\triangle ABC) &= 48 \text{ cm}^2 \end{aligned}$$

$$s(\triangle DEF) = ? \text{ cm}^2$$

- A) 12 B) 14 C) 16 D) 18 E) 21

11.

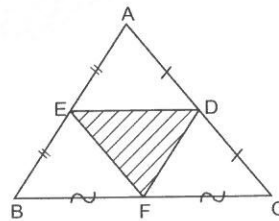


$$\begin{aligned} |BF| &= |FE| = 2|EC| \\ |AD| &= 3|DC| \end{aligned}$$

$$\frac{s(\triangle DEF)}{s(\triangle ABC)} = ?$$

- A) $\frac{3}{20}$ B) $\frac{7}{20}$ C) $\frac{9}{20}$ D) $\frac{11}{20}$ E) $\frac{13}{20}$

12.



$$\begin{aligned} |AE| &= |EB| \\ |BF| &= |FC| \\ |AD| &= |DC| \\ s(\triangle DEF) &= 6 \text{ cm}^2 \end{aligned}$$

$$s(\triangle AED) + s(\triangle DFC) = ? \text{ cm}^2$$

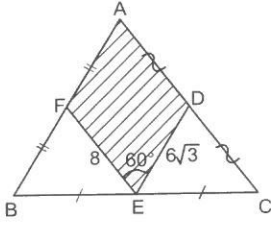
- A) 6 B) 9 C) 12 D) 15 E) 18

Cevap Anahtarı – Answer Sheet

1.D	2.C	3.B	4.C	5.A	6.C
7.A	8.E	9.E	10.B	11.D	12.C



1.

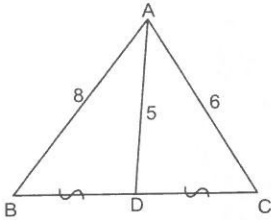


$m(\widehat{FED}) = 60^\circ$
 $|FE| = 8 \text{ cm}$
 $|ED| = 6\sqrt{3} \text{ cm}$
 $|AF| = |FB|$
 $|AD| = |DC|$
 $|BF| = |EC|$

 $s(\widehat{AFED}) = ? \text{ cm}^2$

- A) 48 B) 60 C) 72 D) 84 E) 144

2.

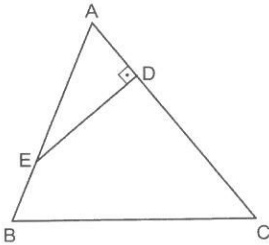


$|BD| = |DC|$
 $|AB| = 8 \text{ cm}$
 $|AC| = 6 \text{ cm}$
 $|AD| = 5 \text{ cm}$

 $s(\widehat{ABC}) = ? \text{ cm}^2$

- A) 20 B) 24 C) 30 D) 36 E) 48

3.

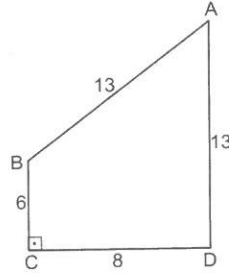


$[ED] \perp [AC]$
 $|ED| = 6 \text{ cm}$
 $|AC| = 15 \text{ cm}$
 $|EB| = 2|AE|$

 $s(\widehat{ABC}) = ? \text{ cm}^2$

- A) 135 B) 120 C) 105 D) 90 E) 75

4.

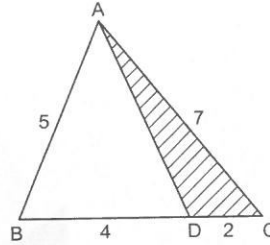


$[BC] \perp [CD]$
 $|AB| = |AD| = 13 \text{ cm}$
 $|BC| = 6 \text{ cm}$
 $|CD| = 8 \text{ cm}$

 $s(\widehat{ABCD}) = ? \text{ cm}^2$

- A) 60 B) 66 C) 72 D) 84 E) 96

5.

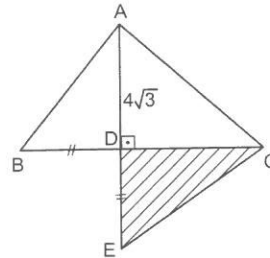


$|AB| = 5 \text{ cm}$
 $|AC| = 7 \text{ cm}$
 $|DC| = 2 \text{ cm}$
 $|BD| = 4 \text{ cm}$

 $s(\widehat{ADC}) = ? \text{ cm}^2$

- A) $6\sqrt{6}$ B) $5\sqrt{6}$ C) $4\sqrt{6}$ D) $3\sqrt{6}$ E) $2\sqrt{6}$

6.



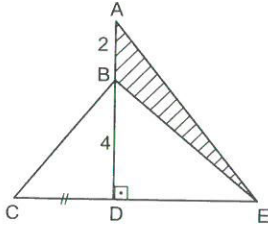
$[BA] \perp [AC]$
 $[AD] \perp [BC]$
 $|BD| = |DE|$
 $|AD| = 4\sqrt{3} \text{ cm}$

 $s(\widehat{EDC}) = ? \text{ cm}^2$

- A) 48 B) 42 C) 36 D) 30 E) 24



7.

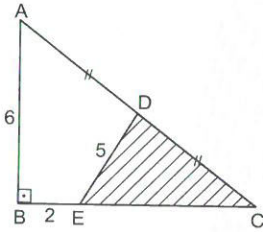


$x = ?$

- A) 9 B) 10 C) 11 D) 12 E) 13

$[CB] \perp [BE]$
 $[AD] \perp [CE]$
 $|AB| = 2 \text{ cm}$
 $|BD| = 4 \text{ cm}$
 $s(\triangle ABE) = 8 \text{ cm}^2$
 $|CE| = x$

8.

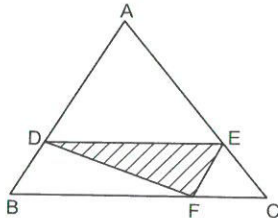


$s(\triangle DEC) = ? \text{ cm}^2$

- A) 24 B) 20 C) 18 D) 16 E) 15

$[AB] \perp [BC]$
 $|AD| = |DC|$
 $|AB| = 6 \text{ cm}$
 $|DE| = 5 \text{ cm}$
 $|BE| = 2 \text{ cm}$

9.

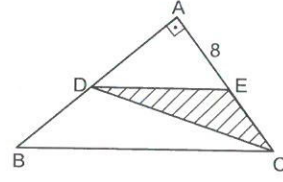


$s(\triangle DEF) = ? \text{ cm}^2$

- A) 4 B) 6 C) 8 D) 10 E) 12

$[DE] \parallel [BC]$
 $\frac{|AD|}{|DB|} = 2$
 $s(\triangle ABC) = 18 \text{ cm}^2$

10.

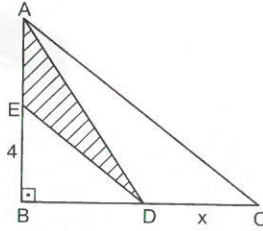


$s(\triangle DEC) = ? \text{ cm}^2$

- A) 20 B) 30 C) 40 D) 50 E) 60

$[BA] \perp [AC]$
 $[DE] \parallel [BC]$
 $|AE| = 8 \text{ cm}$
 $|DB| = 5 \text{ cm}$

11.

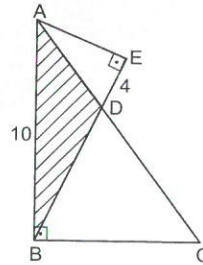


$x = ?$

- A) 8 B) 6 C) 5 D) 4 E) 3

$[AB] \perp [BC]$
 $[DE] \parallel [AC]$
 $s(\triangle AED) = 12 \text{ cm}^2$
 $|EB| = 4 \text{ cm}$
 $|DC| = x \text{ cm}$

12.



$s(\triangle ABD) = ? \text{ cm}^2$

- A) 45 B) 40 C) 30 D) 20 E) 15

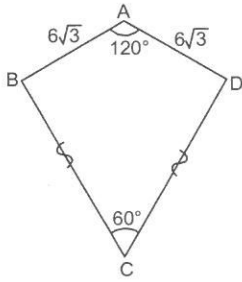
$[AB] \perp [BC]$
 $[AE] \perp [EB]$
 $|BD| = |BC|$
 $|AB| = 10 \text{ cm}$
 $|DE| = 4 \text{ cm}$

Cevap Anahtarı – Answer Sheet

1.C	2.B	3.A	4.D	5.E	6.E
7.B	8.E	9.A	10.A	11.B	12.D



1.

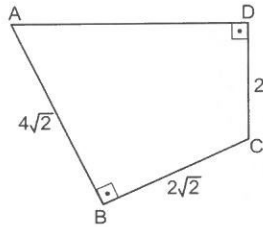


$$\begin{aligned} m(\widehat{BAD}) &= 120^\circ \\ m(\widehat{BCD}) &= 60^\circ \\ |AB| &= |AD| = 6\sqrt{3} \text{ cm} \end{aligned}$$

$$s(ABCD) = ? \text{ cm}^2$$

- A) $108\sqrt{3}$ B) $96\sqrt{3}$ C) $84\sqrt{3}$
D) $81\sqrt{3}$ E) $72\sqrt{3}$

2.

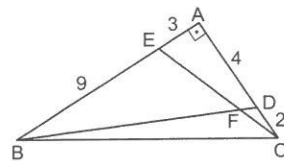


$$\begin{aligned} [AD] &\perp [DC] \\ [AB] &\perp [BC] \\ |DC| &= 2 \text{ cm} \\ |AB| &= 4\sqrt{2} \text{ cm} \\ |BC| &= 2\sqrt{2} \text{ cm} \end{aligned}$$

$$s(ABCD) = ? \text{ cm}^2$$

- A) 8 B) 10 C) 12 D) 14 E) 16

3.

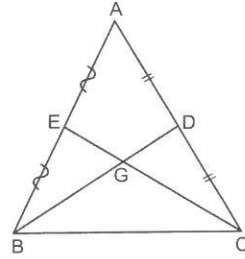


$$\begin{aligned} [BA] &\perp [AC] \\ |AE| &= 3 \text{ cm} \\ |AD| &= 4 \text{ cm} \\ |EB| &= 9 \text{ cm} \\ |DC| &= 2 \text{ cm} \end{aligned}$$

$$s(\triangle BEF) - s(\triangle FDC) = ?$$

- A) 21 B) 18 C) 15 D) 12 E) 9

4.

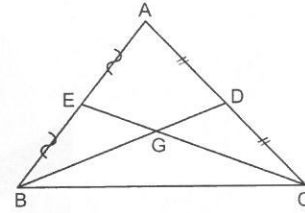


$$\begin{aligned} |AD| &= |DC| \\ |AE| &= |EB| \\ s(\triangle EGD) &= 36 \text{ cm}^2 \end{aligned}$$

$$s(\triangle BGC) = ? \text{ cm}^2$$

- A) 24 B) 28 C) 32 D) 36 E) 40

5.

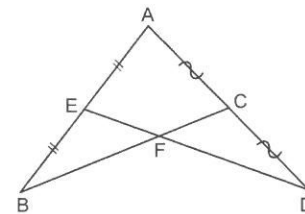


$$\begin{aligned} |AD| &= |DC| \\ |AE| &= |EB| \\ s(\triangle DGC) &= 4 \text{ cm}^2 \end{aligned}$$

$$s(\triangle ABD) = ? \text{ cm}^2$$

- A) 16 B) 12 C) 10 D) 8 E) 6

6.



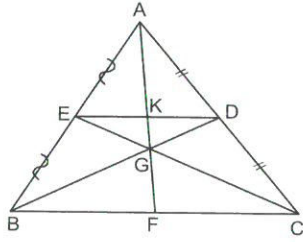
$$\begin{aligned} |AE| &= |EB| \\ |AC| &= |CD| \\ s(\triangle ABC) &= 30 \text{ cm}^2 \end{aligned}$$

$$s(\triangle BFD) = ? \text{ cm}^2$$

- A) 20 B) 25 C) 30 D) 35 E) 40



7.

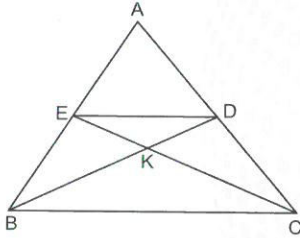


$$\begin{aligned} |AE| &= |EB| \\ |AD| &= |DC| \\ s(\triangle KEG) &= 2 \text{ cm}^2 \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) 56 B) 48 C) 44 D) 40 E) 36

8.

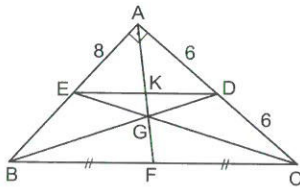


$$\begin{aligned} [ED] &\parallel [BC] \\ |AD| &= |DC| \\ s(\triangle ABC) &= 72 \text{ cm}^2 \end{aligned}$$

$$s(\triangle KED) = ? \text{ cm}^2$$

- A) 3 B) 4 C) 5 D) 6 E) 8

9.

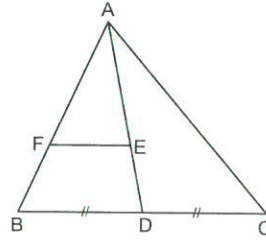


$$\begin{aligned} [ED] &\parallel [BC] \\ |BF| &= |FC| \\ |AD| &= |DC| = 6 \text{ cm} \\ |AE| &= 8 \text{ cm} \end{aligned}$$

$$s(\triangle KGD) = ? \text{ cm}^2$$

- A) 4 B) 5 C) 6 D) 7 E) 8

10.

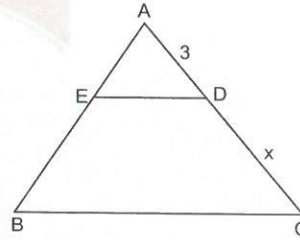


$$\begin{aligned} [EF] &\parallel [BC] \\ \frac{|AF|}{|AB|} &= \frac{2}{3} \\ |BD| &= |DC| \\ s(\triangle BFED) &= 15 \text{ cm}^2 \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) 42 B) 48 C) 54 D) 60 E) 64

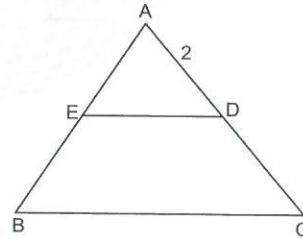
11.



$$\begin{aligned} [ED] &\parallel [BC] \\ |AD| &= 3 \text{ cm} \\ \frac{s(\triangle AED)}{s(\triangle EDCB)} &= \frac{1}{8} \end{aligned}$$

- A) 2 B) 3 C) 4 D) 5 E) 6

12.



$$\begin{aligned} [ED] &\parallel [BC] \\ s(\triangle ADE) &= s(\triangle EDCB) \\ |AC| &= x \text{ cm} \end{aligned}$$

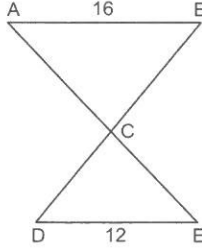
$$x = ?$$

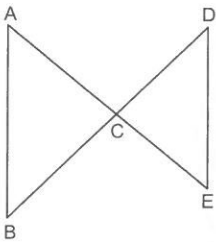
- A) $\sqrt{2}$ B) 2 C) $2\sqrt{2}$ D) 4 E) $4\sqrt{2}$

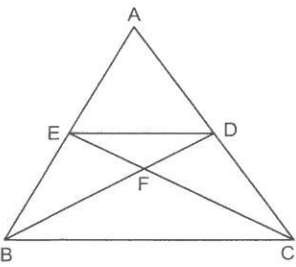
Cevap Anahtarı – Answer Sheet

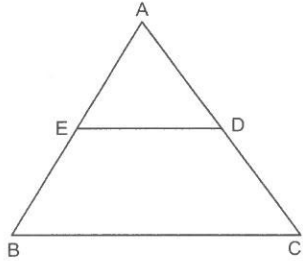
1.A	2.D	3.C	4.D	5.B	6.E
7.B	8.D	9.A	10.C	11.E	12.C

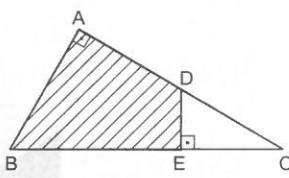


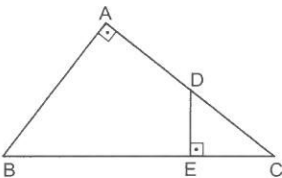
1. 
[AB] // [DE]
|AB| = 16 cm
|DE| = 12 cm
 $s(\triangle CDE) = 27 \text{ cm}^2$
 $s(\triangle ABC) = ? \text{ cm}^2$
A) 36 B) 42 C) 44 D) 46 E) 48

2. 
[AB] // [DE]
 $\frac{s(\triangle ABC)}{s(\triangle CDE)} = \frac{25}{9}$
|BD| = 32 cm
|BC| = x cm
x = ?
A) 20 B) 18 C) 16 D) 14 E) 12

3. 
[ED] // [BC]
|BF| = 3|FD|
 $s(\triangle AED) = 10 \text{ cm}^2$
 $s(\triangle BFC) = ? \text{ cm}^2$
A) 48 B) 45 C) 42 D) 40 E) 35

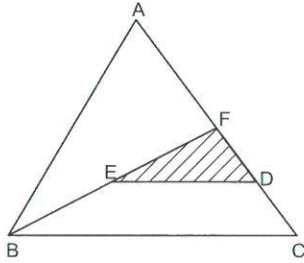
4. 
[ED] // [BC]
 $s(\triangle AED) = 36 \text{ cm}^2$
 $s(\triangle EDCB) = 28 \text{ cm}^2$
|AC| = 20 cm
|AD| = x
x = ?
A) 18 B) 16 C) 15 D) 14 E) 12

5. 
[BA] ⊥ [AC]
[DE] ⊥ [BC]
 $\frac{|BC|}{|DC|} = 4$
 $s(\triangle DEC) = 4 \text{ cm}^2$
 $s(\triangle ABED) = ? \text{ cm}^2$
A) 64 B) 60 C) 56 D) 52 E) 48

6. 
[BA] ⊥ [AC]
[DE] ⊥ [BC]
 $s(\triangle DEC) = 6 \text{ cm}^2$
 $s(\triangle ABED) = 18 \text{ cm}^2$
|EC| = 2 cm
|AC| = x cm
x = ?
A) 12 B) 10 C) 8 D) 6 E) 4



7.

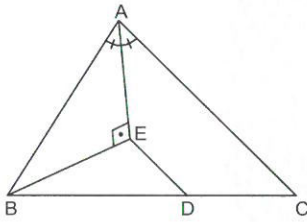


$$\begin{aligned} |AF| &= 2 \cdot |FD| = 2 \cdot |DC| \\ [ED] &\parallel [BC] \\ s(\triangle FED) &= 10 \text{ cm}^2 \end{aligned}$$

$$s(\triangle ABF) = ? \text{ cm}^2$$

- A) 30 B) 40 C) 50 D) 60 E) 80

8.

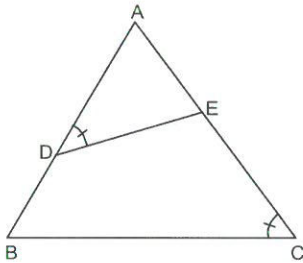


$$\begin{aligned} m(\widehat{BAE}) &= m(\widehat{EAC}) \\ [AE] &\perp [BE] \\ [ED] &\parallel [AC] \\ |ED| &= 4 \text{ cm} \\ |AC| &= 20 \text{ cm} \\ s(\triangle EBD) &= 4 \text{ cm}^2 \end{aligned}$$

$$s(\triangle ABE) = ? \text{ cm}^2$$

- A) 18 B) 15 C) 12 D) 9 E) 6

9.

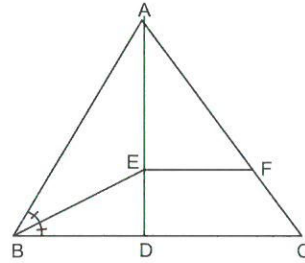


$$\begin{aligned} m(\widehat{ADE}) &= m(\widehat{ACB}) \\ |DE| &= 3 \text{ cm} \\ |BC| &= 9 \text{ cm} \\ s(\triangle BCED) &= 40 \text{ cm}^2 \end{aligned}$$

$$s(\triangle ADE) = ? \text{ cm}^2$$

- A) 8 B) 7 C) 6 D) 5 E) 4

10.

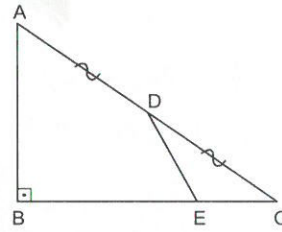


$$\begin{aligned} m(\widehat{ABE}) &= m(\widehat{EBD}) \\ [EF] &\parallel [DC] \\ |AB| &= 2|BD| \\ s(\triangle EFC) &= 20 \text{ cm}^2 \end{aligned}$$

$$s(\triangle AEF) = ? \text{ cm}^2$$

- A) 16 B) 18 C) 20 D) 22 E) 24

11.

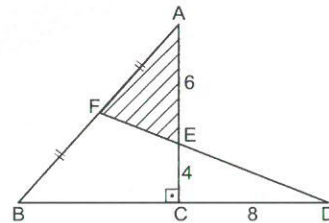


$$\begin{aligned} [AB] &\perp [BC] \\ |AD| &= |DC| \\ |AB| &= 8 \text{ cm} \\ |DE| &= 5 \text{ cm} \\ |BC| &= 4|EC| \end{aligned}$$

$$s(\triangle DEC) = ? \text{ cm}^2$$

- A) 9 B) 8 C) 7 D) 6 E) 5

12.



$$\begin{aligned} [AC] &\perp [BD] \\ |AF| &= |FB| \\ |AE| &= 6 \text{ cm} \\ |EC| &= 4 \text{ cm} \\ |CD| &= 8 \text{ cm} \end{aligned}$$

$$s(\triangle AFE) = ? \text{ cm}^2$$

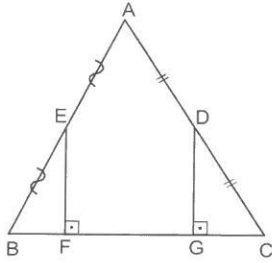
- A) 10 B) 9 C) 8 D) 7 E) 6

Cevap Anahtarı – Answer Sheet

1.E	2.A	3.B	4.C	5.B	6.E
7.B	8.C	9.D	10.A	11.D	12.E



1.

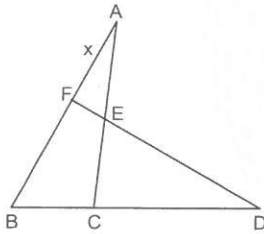


$$\begin{aligned} [EF] &\perp [BC] \\ [DG] &\perp [BC] \\ |AE| &= |EB| \\ |AD| &= |DC| \\ s(\triangle BEF) + s(\triangle DGC) &= 10 \text{ cm}^2 \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) 20 B) 30 C) 40 D) 50 E) 60

2.

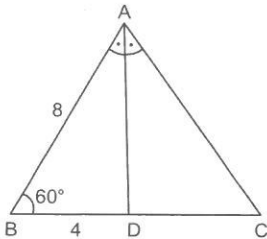


$$\begin{aligned} |BF| &= 6 \text{ cm} \\ |BC| &= 3 \text{ cm} \\ |CD| &= 9 \text{ cm} \\ s(\triangle BDF) &= 2 \cdot s(\triangle ABC) \\ |AF| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

- A) 10 B) 9 C) 8 D) 7 E) 6

3.

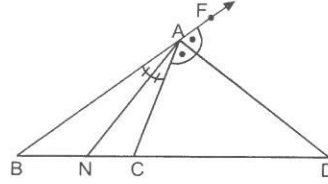


$$\begin{aligned} m(\widehat{BAD}) &= m(\widehat{DAC}) \\ m(\widehat{ABD}) &= 60^\circ \\ |AB| &= 8 \text{ cm} \\ |BD| &= 4 \text{ cm} \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) $16\sqrt{3}$ B) $12\sqrt{3}$ C) 24
D) 18 E) $12\sqrt{2}$

4.

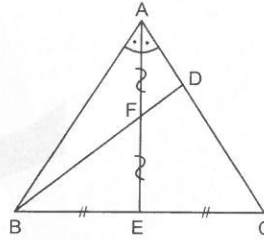


$$\begin{aligned} m(\widehat{BAN}) &= m(\widehat{NAC}) \\ m(\widehat{CAD}) &= m(\widehat{DAF}) \\ |AB| &= 6 \text{ cm} \\ |AC| &= 4 \text{ cm} \end{aligned}$$

$$\frac{s(\triangle AND)}{s(\triangle ABC)} = ?$$

- A) 4 B) $\frac{12}{5}$ C) $\frac{13}{5}$ D) 3 E) $\frac{11}{5}$

5.

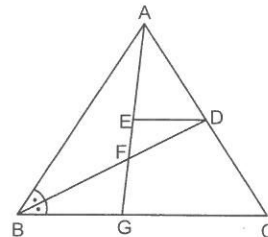


$$\begin{aligned} m(\widehat{BAE}) &= m(\widehat{EAC}) \\ |BE| &= |EC| \\ |AF| &= |FE| \\ s(\triangle AFD) &= 6 \text{ cm}^2 \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) 60 B) 64 C) 68 D) 72 E) 76

6.



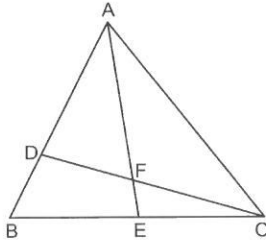
$$\begin{aligned} m(\widehat{ABF}) &= m(\widehat{FBG}) \\ [ED] &\parallel [BC] \\ |AB| &= 5 \text{ cm} \\ |BG| &= 4 \text{ cm} \\ |GC| &= 6 \text{ cm} \\ |EG| &= 3 \text{ cm} \\ |FG| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

- A) $\frac{1}{2}$ B) 1 C) $\frac{3}{2}$ D) 2 E) $\frac{5}{2}$



7.

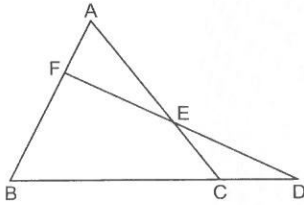


$$|BE| = |EC|$$
$$|AF| = 3|FE|$$

$$\frac{s(\triangle AFC)}{s(\triangle ADF)} = ?$$

- A) $\frac{3}{2}$ B) $\frac{4}{3}$ C) $\frac{5}{3}$ D) $\frac{5}{4}$ E) 1

8.

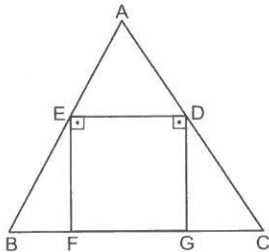


$$|BC| = 2 \cdot |CD|$$
$$|AE| = 2 \cdot |EC|$$

$$\frac{s(\triangle DEC)}{s(\triangle ABC)} = ?$$

- A) $\frac{1}{6}$ B) $\frac{1}{5}$ C) $\frac{2}{5}$ D) $\frac{1}{8}$ E) $\frac{2}{7}$

9.

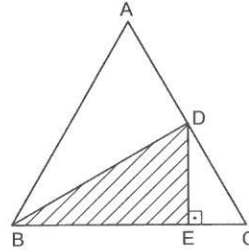


$$[EF] \parallel [DG]$$
$$[ED] \parallel [BC]$$
$$[ED] \perp [DG]$$
$$|ED| = |DG|$$
$$s(\triangle EDF) = 16 \text{ cm}^2$$
$$|BC| = 12 \text{ cm}$$

$$s(\triangle AED) = ? \text{ cm}^2$$

- A) 8 B) 7 C) 6 D) 5 E) 4

10.

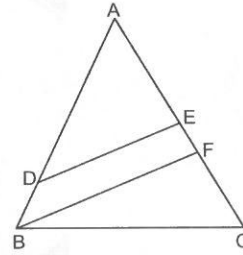


$$|AB| = |AC| = |BC|$$
$$[DE] \perp [BC]$$
$$|AB| = 8 \text{ cm}$$
$$|DC| = 4 \text{ cm}$$

$$s(\triangle DBE) = ? \text{ cm}^2$$

- A) $9\sqrt{3}$ B) $8\sqrt{3}$ C) $7\sqrt{3}$ D) $6\sqrt{3}$ E) $5\sqrt{3}$

11.

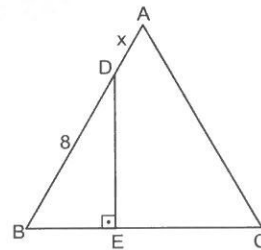


$$[DE] \parallel [BF]$$
$$|AE| = 12 \text{ cm}$$
$$|EF| = 4 \text{ cm}$$
$$\frac{s(\triangle ADE)}{s(\triangle ECB)} = 1$$
$$|FC| = x \text{ cm}$$

$$x = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

12.



$$|AB| = |AC| = |BC|$$
$$s(\triangle ADE) = 28 \text{ cm}^2$$
$$|BD| = 8 \text{ cm}$$
$$|AD| = x \text{ cm}$$

$$x = ?$$

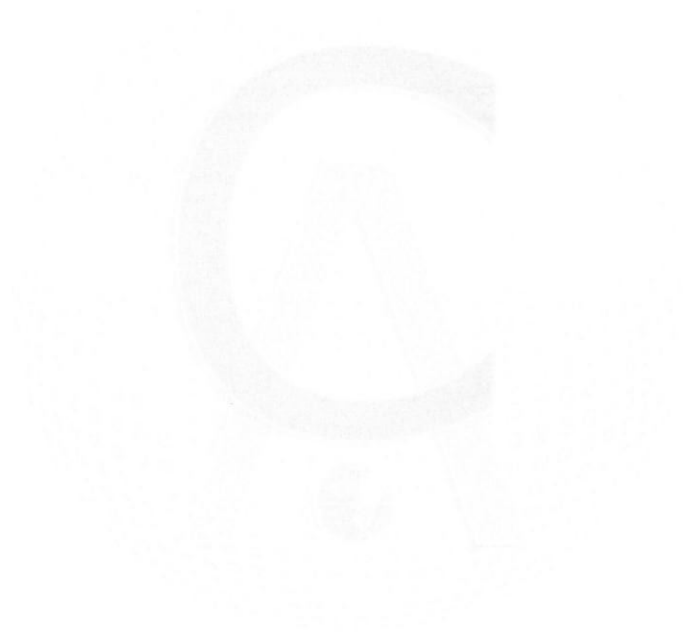
- A) 1 B) 2 C) 3 D) 4 E) 5

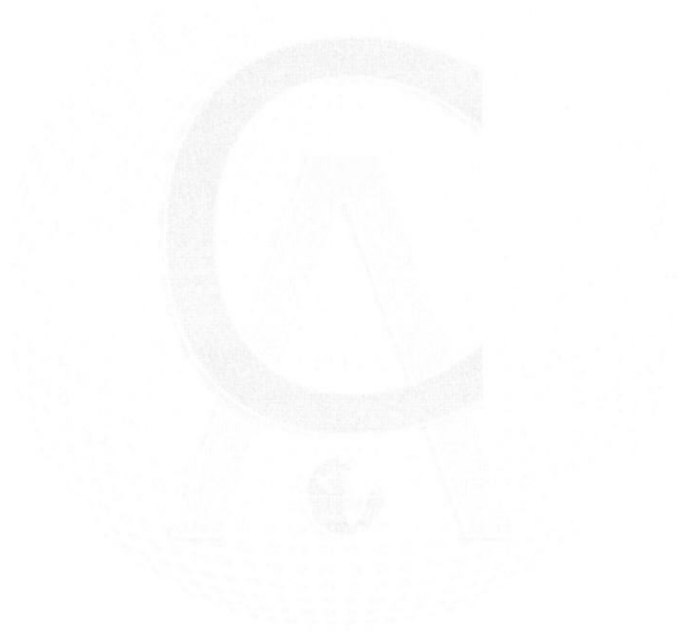
Cevap Anahtarı – Answer Sheet

1.C	2.E	3.A	4.B	5.D	6.D
7.C	8.A	9.E	10.D	11.B	12.D

9. BÖLÜM

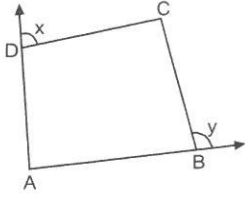
ÇOKGENLER - DÖRTGENLER







1.

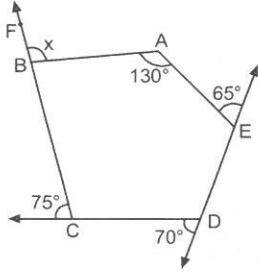


$$x + y = 170^\circ$$

$$m(\widehat{DAB}) + m(\widehat{DCB}) = ?$$

- A) 170 B) 180 C) 190 D) 200 E) 210

2.

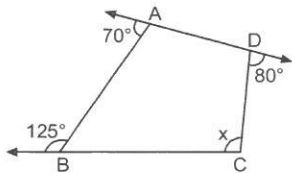


$$m(\widehat{FBA}) = x$$

$$x = ?$$

- A) 85 B) 90 C) 95 D) 100 E) 105

3.

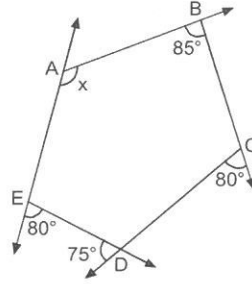


$$m(\widehat{DCB}) = x$$

$$x = ?$$

- A) 80 B) 85 C) 90 D) 95 E) 100

4.

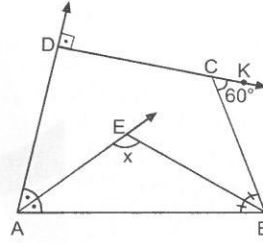


$$m(\widehat{EAB}) = x$$

$$x = ?$$

- A) 130 B) 135 C) 140 D) 145 E) 150

5.



$$m(\widehat{DAE}) = m(\widehat{AEB})$$

$$m(\widehat{CBE}) = m(\widehat{EBA})$$

$$[AD] \perp [DC]$$

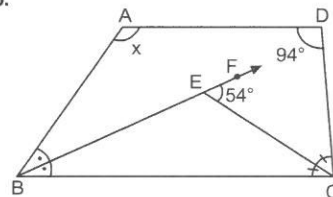
$$m(\widehat{BCK}) = 60^\circ$$

$$m(\widehat{AEB}) = x^\circ$$

$$x = ?$$

- A) 95 B) 100 C) 105 D) 110 E) 115

6.



$$m(\widehat{ABE}) = m(\widehat{EBC})$$

$$m(\widehat{DCE}) = m(\widehat{ECB})$$

$$m(\widehat{ADC}) = 94^\circ$$

$$m(\widehat{FEC}) = 54^\circ$$

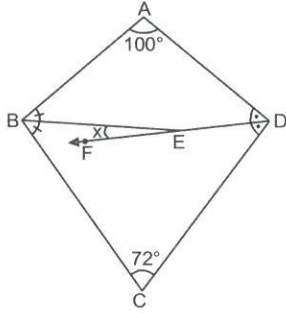
$$m(\widehat{BAD}) = x$$

$$x = ?$$

- A) 166 B) 164 C) 162 D) 158 E) 156



7.

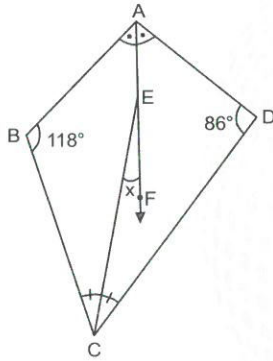


$$\begin{aligned} m(\widehat{ADE}) &= m(\widehat{EDC}) \\ m(\widehat{ABE}) &= m(\widehat{EBC}) \\ m(\widehat{BCD}) &= 72^\circ \\ m(\widehat{BAD}) &= 100^\circ \\ m(\widehat{FEB}) &= x \end{aligned}$$

 $x = ?$

- A) 16 B) 14 C) 12 D) 10 E) 8

8.

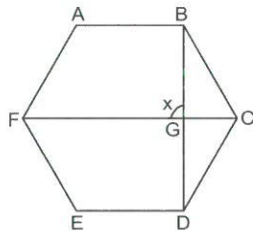


$$\begin{aligned} m(\widehat{BAE}) &= m(\widehat{EAD}) \\ m(\widehat{BCE}) &= m(\widehat{ECD}) \\ m(\widehat{ADC}) &= 86^\circ \\ m(\widehat{ABC}) &= 118^\circ \\ m(\widehat{FEC}) &= x \end{aligned}$$

 $x = ?$

- A) 20 B) 18 C) 16 D) 14 E) 12

9.



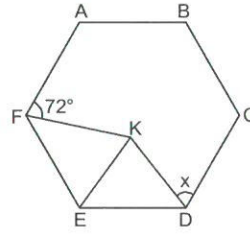
$$|AB| = |BC| = |CD| = |DE| = |EF| = |FA|$$

$$m(\widehat{FGB}) = x$$

 $x = ?$

- A) 80 B) 85 C) 90 D) 95 E) 100

10.

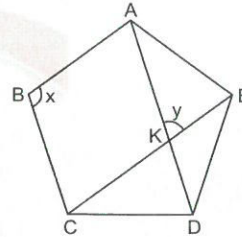


$$\begin{aligned} |AB| &= |BC| = |CD| \\ &= |DE| = |EF| = |FA| \\ |FE| &= |EK| \\ m(\widehat{ADF}) &= 72^\circ \\ m(\widehat{KDC}) &= x \end{aligned}$$

 $x = ?$

- A) 56 B) 54 C) 52 D) 50 E) 48

11.

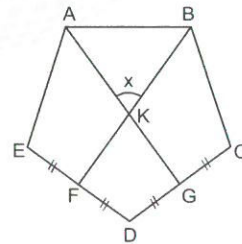


$$\begin{aligned} |AB| &= |BC| = |CD| \\ &= |DE| = |EA| \\ (\widehat{ABC}) &= x \\ m(\widehat{AKE}) &= y \end{aligned}$$

$$\frac{x}{y} = ?$$

- A)
- $\frac{5}{2}$
- B) 2 C)
- $\frac{3}{2}$
- D) 1 E)
- $\frac{1}{2}$

12.



$$\begin{aligned} |AB| &= |BC| = |CD| \\ &= |DE| = |EA| \\ |EF| &= |FD| \\ |DG| &= |GC| \\ m(\widehat{AKB}) &= x \end{aligned}$$

 $x = ?$

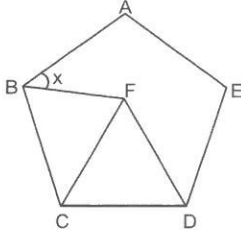
- A) 84 B) 80 C) 76 D) 72 E) 68

Cevap Anahtarı – Answer Sheet

1.A	2.D	3.D	4.E	5.C	6.D
7.B	8.C	9.C	10.E	11.C	12.D



1.



$$|AB| = |BC| = |CD| = |DE| = |EA|$$

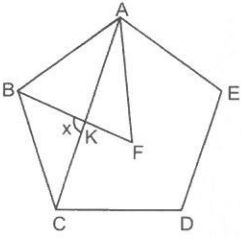
$$|CF| = |FD| = |DC|$$

$$m(\widehat{ABF}) = x$$

$$x = ?$$

- A) 50 B) 48 C) 46 D) 44 E) 42

2.



$$|AB| = |BC| = |CD| = |DE| = |EA|$$

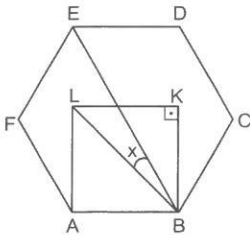
$$|AB| = |AF| = |BF|$$

$$m(\widehat{BKC}) = x$$

$$x = ?$$

- A) 96 B) 100 C) 104 D) 108 E) 112

3.



$$|AB| = |BC| = |CD| = |DE| = |EF| = |FA|$$

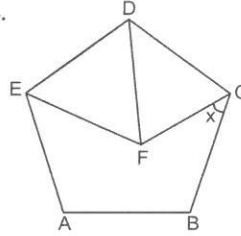
$$|AL| = |LK| = |KB| = |BA|$$

$$m(\widehat{EBL}) = x$$

$$x = ?$$

- A) 9 B) 12 C) 15 D) 18 E) 21

4.



$$|AB| = |BC| = |CD| = |DE| = |EA|$$

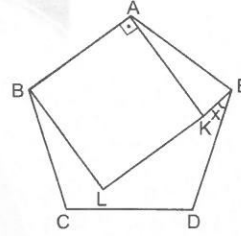
$$|DE| = |EF| = |DF|$$

$$m(\widehat{FCB}) = x$$

$$x = ?$$

- A) 44 B) 42 C) 40 D) 38 E) 36

5.



$$|AB| = |BC| = |CD| = |DE| = |EA|$$

$$|AB| = |BL| = |LK| = |KA|$$

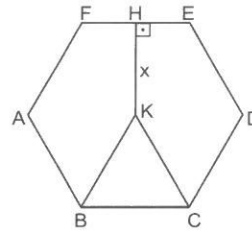
$$[AB] \parallel [LK], [BL] \parallel [AK]$$

$$m(\widehat{BAK}) = 90^\circ, m(\widehat{KED}) = x$$

$$x = ?$$

- A) 36 B) 32 C) 30 D) 27 E) 25

6.



$$|AB| = |BC| = |CD| = |DE| = |EF| = |FA|$$

$$|BK| = |KC| = |CB|$$

$$[KH] \perp [FE]$$

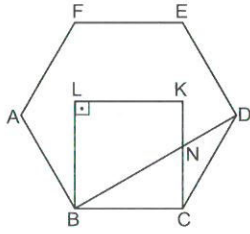
$$|KB| = 6 \text{ cm}, |KH| = x \text{ cm}$$

$$x = ?$$

- A) 3 B) $3\sqrt{3}$ C) 6 D) $6\sqrt{3}$ E) 12



7.



$$|AB| = |BC| = |CD| = |DE| = |EF| = |FA|$$

$$|BL| = |LK| = |KC| = |CB|$$

$$[LK] \parallel [BC], [BL] \parallel [KC]$$

$$m(\angle BLK) = 90^\circ$$

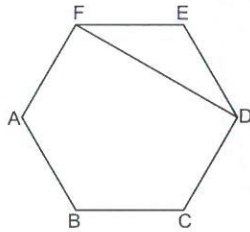
$$s(\triangle BDC) = 6\sqrt{3} \text{ cm}^2$$

$$|ND| = x$$

$$x = ?$$

- A) $2\sqrt{2}$ B) $3\sqrt{2}$ C) $2\sqrt{3}$ D) $3\sqrt{3}$ E) $2\sqrt{6}$

8.



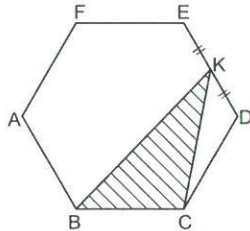
$$|AB| = |BC| = |CD| = |DE| = |EF| = |FA|$$

$$|FD| = 6\sqrt{3} \text{ cm}$$

$$s(ABCDEF) = ? \text{ cm}^2$$

- A) $36\sqrt{3}$ B) $42\sqrt{3}$ C) $48\sqrt{3}$
D) $54\sqrt{3}$ E) $60\sqrt{3}$

9.



$$|AB| = |BC| = |CD| = |DE| = |EF| = |FA|$$

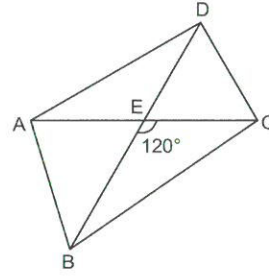
$$|EK| = |KD|$$

$$|AB| = 4 \text{ cm}$$

$$s(\triangle BKC) = ? \text{ cm}^2$$

- A) 6 B) $6\sqrt{3}$ C) 9 D) $9\sqrt{3}$ E) 12

10.



$$|AC| = 4 \text{ cm}$$

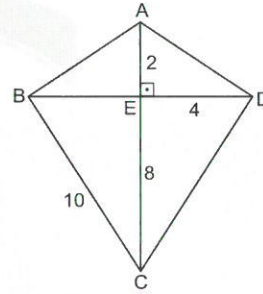
$$|DB| = 6 \text{ cm}$$

$$m(\angle BEC) = 120^\circ$$

$$s(ABCD) = ? \text{ cm}^2$$

- A) $6\sqrt{3}$ B) 9 C) $9\sqrt{3}$ D) 12 E) $12\sqrt{3}$

11.



$$[AC] \perp [BD]$$

$$|AE| = 2 \text{ cm}$$

$$|ED| = 4 \text{ cm}$$

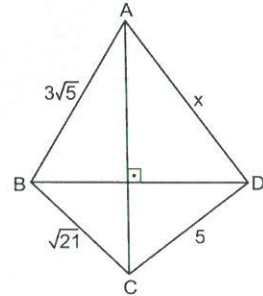
$$|EC| = 8 \text{ cm}$$

$$|BC| = 10 \text{ cm}$$

$$s(ABCD) = ? \text{ cm}^2$$

- A) 72 B) 64 C) 56 D) 52 E) 50

12.



$$[AC] \perp [BD]$$

$$|AB| = 3\sqrt{5} \text{ cm}$$

$$|BC| = \sqrt{21} \text{ cm}$$

$$|DC| = 5 \text{ cm}$$

$$|AD| = x \text{ cm}$$

$$x = ?$$

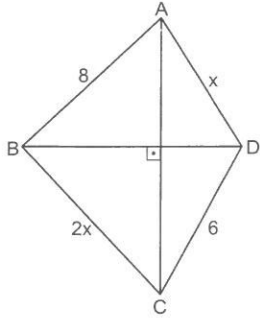
- A) 5 B) 6 C) 7 D) 8 E) 9

Cevap Anahtarı – Answer Sheet

1.E	2.A	3.C	4.B	5.D	6.B
7.A	8.D	9.B	10.A	11.E	12.C



1.

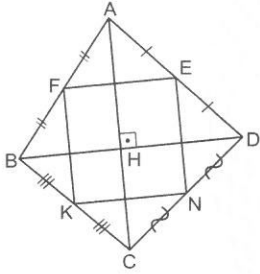


$$\begin{aligned} [AC] &\perp [BD] \\ |AB| &= 8 \text{ cm} \\ |DC| &= 6 \text{ cm} \\ |AD| &= (x) \text{ cm} \\ |BC| &= (2x) \text{ cm} \end{aligned}$$

$$2x = ?$$

- A) 8 B) $4\sqrt{5}$ C) 4 D) $2\sqrt{5}$ E) $\sqrt{5}$

2.

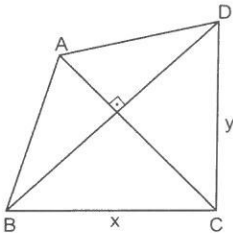


$$\begin{aligned} [AC] &\perp [BD] \\ |AC| &= 8 \text{ cm} \\ |BD| &= 6 \text{ cm} \end{aligned}$$

$$s(\text{FENK}) = ? \text{ cm}^2$$

- A) 48 B) 36 C) 24 D) 12 E) 6

3.

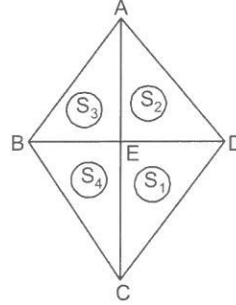


$$\begin{aligned} [AC] &\perp [BD] \\ |AB| &= 4\sqrt{2} \text{ cm} \\ |AD| &= 3\sqrt{3} \text{ cm} \\ |BC| &= x \text{ cm} \\ |DC| &= y \text{ cm} \end{aligned}$$

$$x^2 - y^2 = ?$$

- A) 9 B) 8 C) 7 D) 6 E) 5

4.

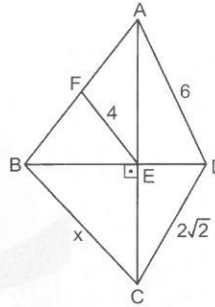


$$\begin{aligned} S_1 &= 6 \text{ cm}^2 \\ S_2 &= 3 \text{ cm}^2 \\ S_3 &= 4 \text{ cm}^2 \end{aligned}$$

$$S_4 = ?$$

- A) 6 B) 8 C) 10 D) 12 E) 15

5.

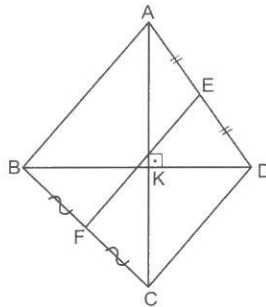


$$\begin{aligned} |AF| &= |FB| \\ [AC] &\perp [BD] \\ |EF| &= 4 \text{ cm} \\ |AD| &= 6 \text{ cm} \\ |DC| &= 2\sqrt{2} \text{ cm} \\ |BC| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

- A) 6 B) 7 C) 8 D) 9 E) 10

6.



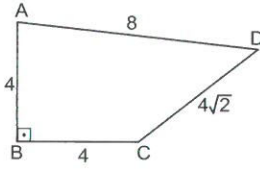
$$\begin{aligned} |AE| &= |ED| \\ |BF| &= |FC| \\ |BD| &= 6\sqrt{2} \\ |AC| &= 2\sqrt{7} \\ |EF| &= x \end{aligned}$$

$$x = ?$$

- A) 7 B) 6 C) 5 D) 4 E) 3



7.

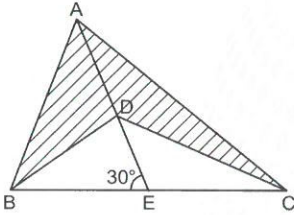


$$\begin{aligned} [AB] &\perp [BC] \\ |AB| &= |BC| = 4 \text{ cm} \\ |DC| &= 4\sqrt{2} \text{ cm} \\ |AD| &= 8 \text{ cm} \end{aligned}$$

$$s(ABCD) = ? \text{ cm}^2$$

- A) 40 B) 36 C) 30 D) 24 E) 20

8.

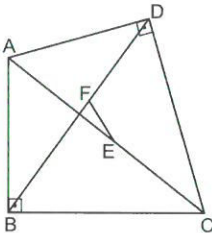


$$\begin{aligned} m(\widehat{BEA}) &= 30^\circ \\ |AD| &= 6 \text{ cm} \\ |BC| &= 8\sqrt{2} \text{ cm} \end{aligned}$$

$$s(ABCD) = ? \text{ cm}^2$$

- A) $6\sqrt{2}$ B) $12\sqrt{2}$ C) $18\sqrt{2}$
D) $24\sqrt{2}$ E) $48\sqrt{2}$

9.

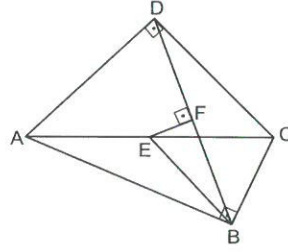


$$\begin{aligned} [AB] &\perp [BC] \\ [AD] &\perp [DC] \\ |BF| &= |FD| \\ |AE| &= |EC| \\ |AC| &= 20 \text{ cm} \\ |BD| &= 16 \text{ cm} \\ |EF| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

- A) 5 B) 6 C) 7 D) 8 E) 9

10.

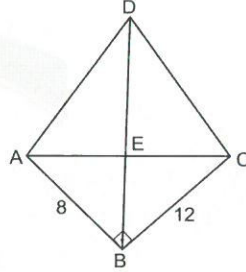


$$\begin{aligned} [AD] &\perp [DC] \\ [AB] &\perp [BC] \\ [EF] &\perp [DB] \\ |AE| &= |EC| \\ |DB| &= 18 \text{ cm} \\ |AC| &= 30 \text{ cm} \\ |EF| &= x \end{aligned}$$

$$x = ?$$

- A) 18 B) 15 C) 12 D) 9 E) 6

11.

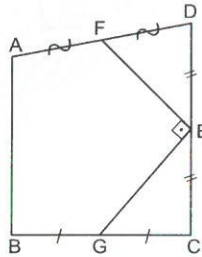


$$\begin{aligned} m(\widehat{ABC}) &= 90^\circ \\ |DB| &= 3|EB| \\ |AB| &= 8 \text{ cm} \\ |BC| &= 12 \text{ cm} \end{aligned}$$

$$s(ABCD) = ? \text{ cm}^2$$

- A) 144 B) 132 C) 128 D) 120 E) 116

12.



$$\begin{aligned} m(\widehat{FEG}) &= 90^\circ \\ |AF| &= |FD| \\ |DE| &= |EC| \\ |BG| &= |GC| \\ |EF| &= 6 \text{ cm} \\ |EG| &= 10 \text{ cm} \end{aligned}$$

$$s(ABCD) = ? \text{ cm}^2$$

- A) 180 B) 150 C) 120 D) 90 E) 60

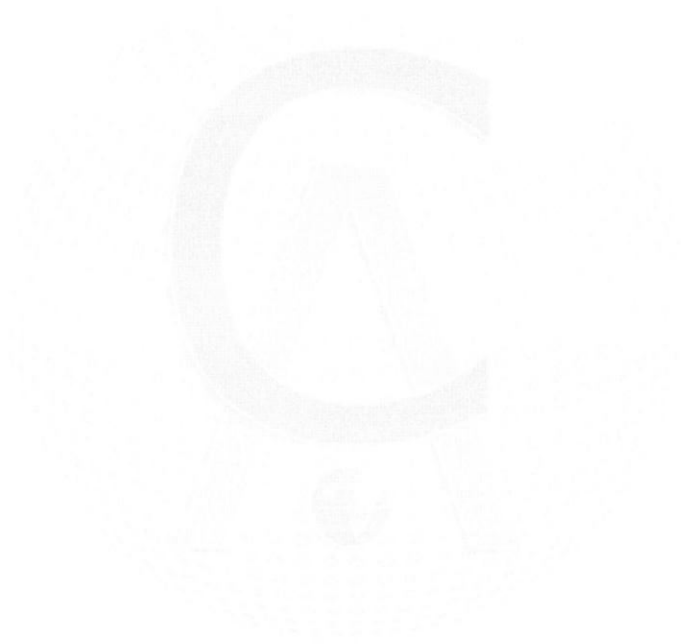
Cevap Anahtarı – Answer Sheet

1.B	2.D	3.E	4.B	5.A	6.C
7.D	8.B	9.B	10.C	11.A	12.C

10. BÖLÜM

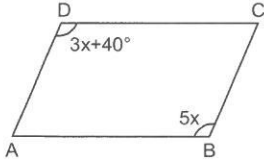
PARALELKENAR







1.

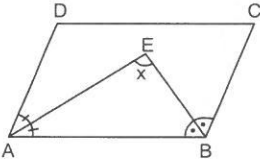


$$\begin{aligned} [DC] // [AB] \\ [AD] // [BC] \\ m(\widehat{ABC}) = (5x)^\circ \\ m(\widehat{ADC}) = (3x + 40)^\circ \end{aligned}$$

$$m(\widehat{DCB}) = ?$$

- A) 60 B) 80 C) 100 D) 120 E) 140

2.

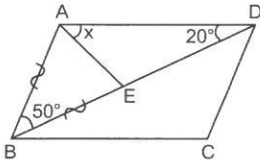


$$\begin{aligned} [AD] // [BC] \\ [DC] // [AB] \\ m(\widehat{AEB}) = x \end{aligned}$$

$$x = ?$$

- A) 90 B) 100 C) 110 D) 120 E) 130

3.

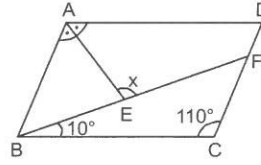


$$\begin{aligned} [AB] // [CD] \\ [AD] // [BC] \\ |AB| = |BE| \\ m(\widehat{ABD}) = 50^\circ \\ m(\widehat{ADB}) = 20^\circ \\ m(\widehat{EAD}) = x \end{aligned}$$

$$x = ?$$

- A) 60 B) 55 C) 50 D) 45 E) 40

4.

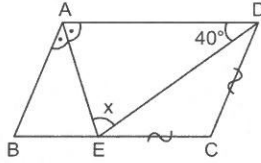


$$\begin{aligned} [AD] // [BC] \\ [AB] // [DC] \\ m(\widehat{BAE}) = m(\widehat{EAD}) \\ m(\widehat{FBC}) = 10^\circ \\ m(\widehat{DCB}) = 110^\circ \\ m(\widehat{AEF}) = x \end{aligned}$$

$$x = ?$$

- A) 125 B) 120 C) 115 D) 110 E) 105

5.

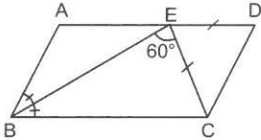


$$\begin{aligned} [AD] // [BC] \\ [AB] // [DC] \\ m(\widehat{BAE}) = m(\widehat{EAD}) \\ |EC| = |CD| \\ m(\widehat{ADE}) = 40^\circ \\ m(\widehat{AED}) = x \end{aligned}$$

$$x = ?$$

- A) 110 B) 100 C) 90 D) 80 E) 70

6.



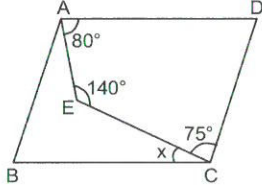
$$\begin{aligned} [AD] // [BC] \\ [AB] // [DC] \\ m(\widehat{ABE}) = m(\widehat{EBC}) \\ |ED| = |EC| \\ m(\widehat{BEC}) = 60^\circ \\ m(\widehat{BAD}) = x \end{aligned}$$

$$x = ?$$

- A) 140 B) 130 C) 120 D) 110 E) 100



7.

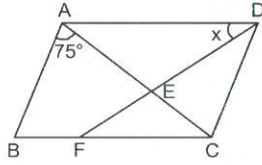


$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $m(\widehat{AEC}) = 140^\circ$
 $m(\widehat{EAD}) = 80^\circ$
 $m(\widehat{ECD}) = 75^\circ$
 $m(\widehat{ECB}) = x$

 $x = ?$

A) 60 B) 55 C) 50 D) 45 E) 40

8.

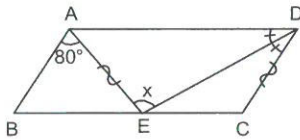


$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $|AB| = |FC|$
 $|AE| = |ED|$
 $m(\widehat{BAC}) = 75^\circ$
 $m(\widehat{ADF}) = x$

 $x = ?$

A) 30 B) 35 C) 40 D) 45 E) 50

9.

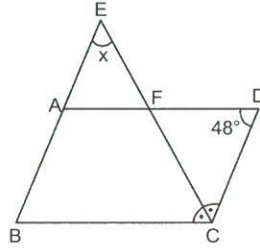


$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $m(\widehat{ADE}) = m(\widehat{EDC})$
 $|AE| = |DC|$
 $m(\widehat{AED}) = x$

 $x = ?$

A) 115 B) 110 C) 105 D) 100 E) 95

10.

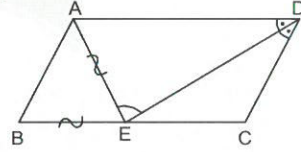


$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $m(\widehat{DCF}) = m(\widehat{FCB})$
 $m(\widehat{ADC}) = 48^\circ$
 $m(\widehat{BEC}) = x$

 $x = ?$

A) 72 B) 70 C) 68 D) 66 E) 64

11.

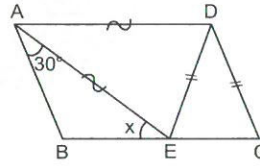


$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $|BE| = |EA|$
 $m(\widehat{ADE}) = m(\widehat{EDC})$
 $m(\widehat{EAD}) = 80^\circ$
 $m(\widehat{AED}) = x$

 $x = ?$

A) 90 B) 85 C) 80 D) 75 E) 70

12.



$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $|AE| = |AD|$
 $|DE| = |DC|$
 $m(\widehat{BAE}) = 30^\circ$
 $m(\widehat{AEB}) = x$

 $x = ?$

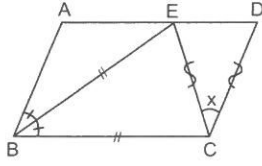
A) 40 B) 45 C) 50 D) 55 E) 60

Cevap Anahtarı – Answer Sheet

1.B	2.A	3.D	4.C	5.C	6.A
7.E	8.B	9.C	10.D	11.D	12.A



1.

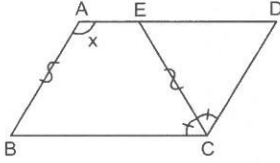


$[AD] // [BC]$
 $[AB] // [DC]$
 $m(\widehat{ABE}) = m(\widehat{EBC})$
 $|BE| = |BC|$
 $|EC| = |DC|$
 $m(\widehat{ECD}) = x$

 $x = ?$

A) 30 B) 36 C) 42 D) 48 E) 54

2.

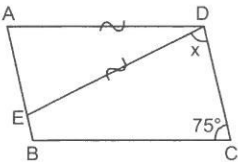


$[AD] // [BC]$
 $[AB] // [DC]$
 $m(\widehat{ECD}) = m(\widehat{ECB})$
 $|AB| = |EC|$
 $m(\widehat{BAD}) = x$

 $x = ?$

A) 100 B) 105 C) 110 D) 115 E) 120

3.

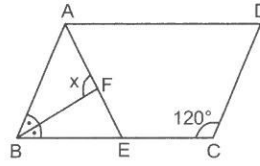


$[AB] // [DC]$
 $[AD] // [BC]$
 $|AD| = |ED|$
 $m(\widehat{DCB}) = 75^\circ$
 $m(\widehat{EDC}) = x$

 $x = ?$

A) 90 B) 85 C) 80 D) 75 E) 70

4.

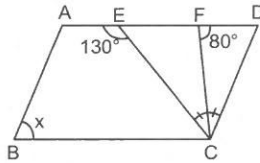


$[AB] // [DC]$
 $[AD] // [BC]$
 $m(\widehat{ABF}) = m(\widehat{FBE})$
 $m(\widehat{BCD}) = 120^\circ$
 $m(\widehat{FEB}) = 68^\circ$
 $m(\widehat{AFB}) = x$

 $x = ?$

A) 98 B) 100 C) 102 D) 104 E) 106

5.

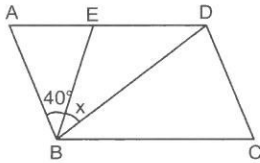


$[AB] // [DC]$
 $[AD] // [BC]$
 $m(\widehat{ECF}) = m(\widehat{FCD})$
 $m(\widehat{AEC}) = 130^\circ$
 $m(\widehat{DFC}) = 80^\circ$
 $m(\widehat{ABC}) = x$

 $x = ?$

A) 80 B) 75 C) 70 D) 65 E) 60

6.



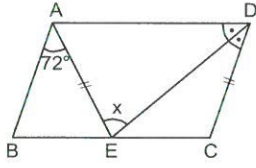
$[AB] // [DC]$
 $[AD] // [BC]$
 $m(\widehat{ABE}) = 40^\circ$
 $|AB| = |BE|$
 $|BD| = |BC|$
 $m(\widehat{FBD}) = x$

 $x = ?$

A) 30 B) 25 C) 20 D) 15 E) 10



7.

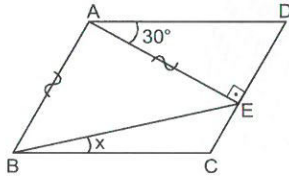


$[AD] // [BC]$
 $[AB] // [DC]$
 $m(\widehat{ADE}) = m(\widehat{EDC})$
 $m(\widehat{BAE}) = 72^\circ$
 $|AE| = |DC|$
 $m(\widehat{AED}) = x$

 $x = ?$

A) 105 B) 102 C) 99 D) 96 E) 92

8.

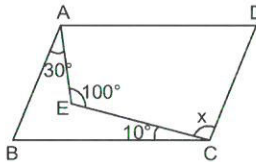


$[AD] // [BC]$
 $[AB] // [DC]$
 $|AB| = |AE|$
 $m(\widehat{DAE}) = 30^\circ$
 $m(\widehat{AED}) = 90^\circ$
 $m(\widehat{EBC}) = x$

 $x = ?$

A) 30 B) 25 C) 20 D) 15 E) 10

9.

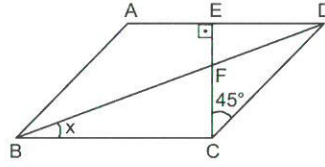


$[AD] // [BC]$
 $[AB] // [DC]$
 $m(\widehat{BAE}) = 30^\circ$
 $m(\widehat{AEC}) = 100^\circ$
 $m(\widehat{ECB}) = 10^\circ$
 $m(\widehat{DCE}) = x$

 $x = ?$

A) 110 B) 105 C) 100 D) 95 E) 90

10.

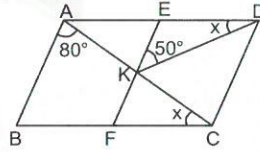


$[AD] // [BC]$
 $[AB] // [DC]$
 $[CE] \perp [AD]$
 $|BF| = 2 \cdot |AB|$
 $m(\widehat{ECD}) = 45^\circ$
 $m(\widehat{DBC}) = x$

 $x = ?$

A) 10 B) 15 C) 20 D) 25 E) 30

11.

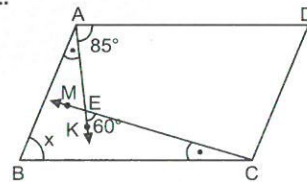


$[AD] // [BC]$
 $[AB] // [DC] // [EF]$
 $m(\widehat{EDC}) = m(\widehat{ACB}) = x$
 $m(\widehat{BAC}) = 80^\circ$
 $m(\widehat{EKD}) = 50^\circ$

 $x = ?$

A) 45 B) 40 C) 35 D) 30 E) 25

12.



$[AD] // [BC]$
 $[AB] // [DC]$
 $m(\widehat{BAE}) = m(\widehat{ECB})$
 $m(\widehat{DAE}) = 85^\circ$
 $m(\widehat{CEK}) = 60^\circ$
 $m(\widehat{ABC}) = x$

 $x = ?$

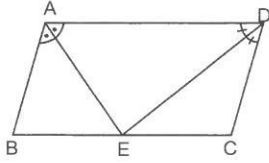
A) 85 B) 80 C) 75 D) 70 E) 65

Cevap Anahtarı – Answer Sheet

1.B	2.E	3.D	4.A	5.C	6.A
7.C	8.D	9.A	10.B	11.E	12.D



1.

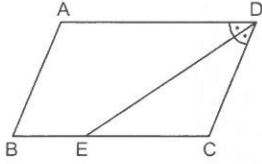


$[AD] // [BC]$
 $[AB] // [DC]$
 $m(\widehat{BAE}) = m(\widehat{EAD})$
 $m(\widehat{ADE}) = m(\widehat{EDC})$
 $|DC| = 3 \text{ cm}$
 $|AD| = x \text{ cm}$

 $x = ?$

A) 7 B) 6 C) 5 D) 4 E) 3

2.

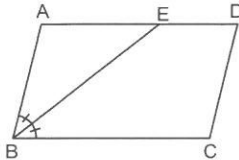


$[AD] // [BC]$
 $[AB] // [DC]$
 $|AD| = 3 \cdot |BE|$
 $|DC| = 10 \text{ cm}$
 $|AD| = x \text{ cm}$

 $x = ?$

A) 11 B) 12 C) 13 D) 14 E) 15

3.

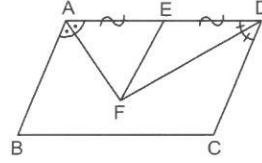


$[AD] // [BC]$
 $[AB] // [DC]$
 $|DC| = |ED| + 3$
 $|BC| = 17 \text{ cm}$
 $|AE| = x \text{ cm}$

 $x = ?$

A) 7 B) 8 C) 9 D) 10 E) 11

4.

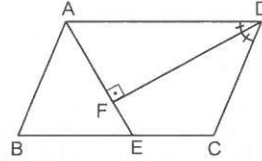


$[AD] // [BC]$
 $[AB] // [DC]$
 $|BC| = 16 \text{ cm}$
 $|EF| = x \text{ cm}$

 $x = ?$

A) 8 B) 7 C) 6 D) 5 E) 4

5.

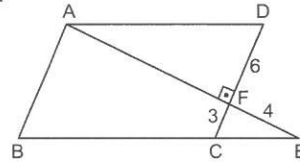


$[AD] // [BC]$
 $[AB] // [DC]$
 $[DF] \perp [AE]$
 $|EC| = 3 \text{ cm}$
 $|DC| = 8 \text{ cm}$
 $\angle(ABCD) = x^\circ$

 $x = ?$

A) 34 B) 36 C) 38 D) 40 E) 42

6.



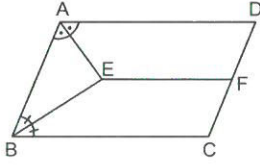
$[AD] // [BC]$
 $[AB] // [DC]$
 $|DF| = 6 \text{ cm}$
 $|CF| = 3 \text{ cm}$
 $|FE| = 4 \text{ cm}$
 $\angle(ABCD) = x^\circ$

 $x = ?$

A) 38 B) 36 C) 34 D) 32 E) 30



7.

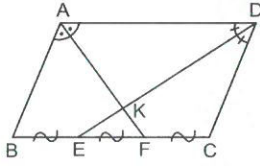


[AD] // [EF] // [BC]
[AB] // [DC]
|AB| = 12 cm
|EF| = 9 cm
|BC| = x cm

 $x = ?$

- A) 12 B) 13 C) 14 D) 15 E) 16

8.

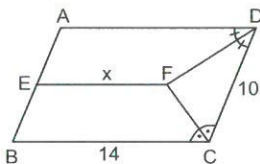


[AB] // [DC]
[AD] // [BC]
|BE| = |EF| = |FG|
Ç(ABCD) = 40 cm
|DC| = x cm

 $x = ?$

- A) 6 B) 8 C) 10 D) 12 E) 14

9.

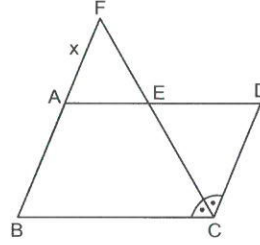


[AD] // [BC]
[AB] // [DC]
[EF] // [BC]
|BC| = 14 cm
|DC| = 10 cm
|EF| = x cm

 $x = ?$

- A) 6 B) 7 C) 8 D) 9 E) 10

10.

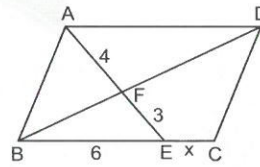


[AB] // [DC]
[AD] // [BC]
|DC| = 9 cm
|BC| = 15 cm
|AF| = x cm

 $x = ?$

- A) 8 B) 7 C) 6 D) 5 E) 4

11.

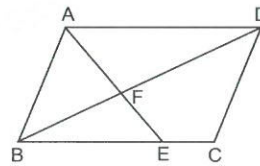


[AD] // [BC]
[AB] // [DC]
|AF| = 4 cm
|FE| = 3 cm
|BE| = 6 cm
|EC| = x cm

 $x = ?$

- A) 6 B) 5 C) 4 D) 3 E) 2

12.



[AD] // [BC]
[AB] // [DC]
 $\frac{|BE|}{|EC|} = \frac{3}{2}$
|BD| = 16 cm
|FD| = x

 $x = ?$

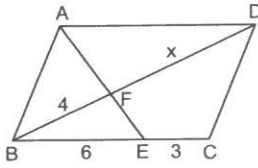
- A) 10 B) 9 C) 8 D) 7 E) 6

Cevap Anahtarı – Answer Sheet

1.B	2.E	3.A	4.A	5.C	6.A
7.D	8.B	9.D	10.C	11.E	12.A



1.

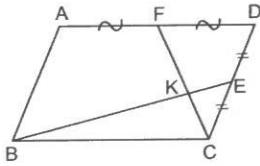


$[AD] // [BC]$
 $[AB] // [DC]$
 $|BF| = 4 \text{ cm}$
 $|BE| = 6 \text{ cm}$
 $|EC| = 3 \text{ cm}$
 $|FD| = x \text{ cm}$

 $x = ?$

A) 2 B) 4 C) 6 D) 8 E) 10

2.

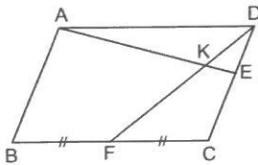


$[AD] // [BC]$
 $[AB] // [DC]$
 $|AF| = |FD|$
 $|DE| = |EC|$
 $|BK| = 32 \text{ cm}$
 $|KE| = x \text{ cm}$

 $x = ?$

A) 2 B) 4 C) 6 D) 8 E) 12

3.

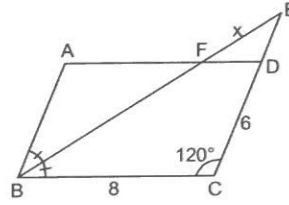


$[AD] // [BC]$
 $[AB] // [DC]$
 $|BF| = |FC|$
 $|CE| = |FC|$
 $|CE| = 3 \cdot |ED|$
 $|KE| = 2 \text{ cm}$
 $|AE| = x \text{ cm}$

 $x = ?$

A) 16 B) 18 C) 20 D) 22 E) 24

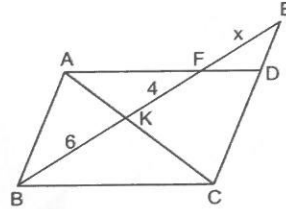
4.



$[AD] // [BC]$
 $[AB] // [DC]$
 $m(\widehat{BCE}) = 120^\circ$
 $|DC| = 6 \text{ cm}$
 $|BC| = 8 \text{ cm}$
 $|FE| = x \text{ cm}$

 $x = ?$ A) $\sqrt{3}$ B) 2 C) 3 D) $2\sqrt{3}$ E) $3\sqrt{3}$

5.

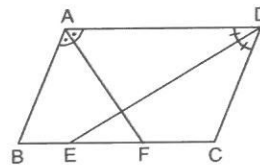


$[AB] // [DC]$
 $[AD] // [BC]$
 $|BK| = 6 \text{ cm}$
 $|KF| = 4 \text{ cm}$
 $|FE| = x \text{ cm}$

 $x = ?$

A) 5 B) 6 C) 7 D) 8 E) 9

6.



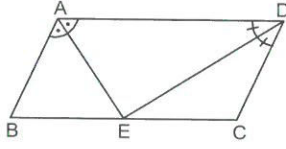
$[AD] // [BC]$
 $[AB] // [DC]$
 $|AD| = 14 \text{ cm}$
 $|DC| = 8 \text{ cm}$
 $|EF| = x \text{ cm}$

 $x = ?$

A) 6 B) 5 C) 4 D) 3 E) 2



7.

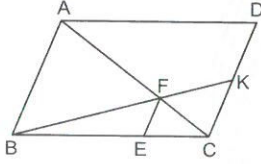


$[AD] // [BC]$
 $[AB] // [DC]$
 $|AE| = 6 \text{ cm}$
 $|DE| = 8 \text{ cm}$

 $\angle(ABCD) = ? \text{ cm}$

A) 30 B) 28 C) 26 D) 24 E) 22

8.

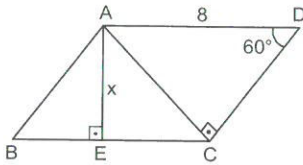


$[AD] // [BC]$
 $[AB] // [EF] // [DC]$
 $|KD| = 2 \cdot |KC|$
 $|EF| = 3 \text{ cm}$
 $|AB| = x \text{ cm}$

 $x = ?$

A) 18 B) 15 C) 12 D) 9 E) 6

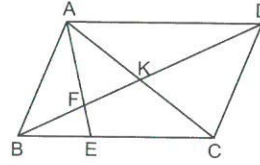
9.



$[AB] // [DC]$
 $[AD] // [BC]$
 $[AE] \perp [AC]$
 $[AC] \perp [DC]$
 $m(\angle ADC) = 60^\circ$
 $|AD| = 8 \text{ cm}$
 $|AE| = x \text{ cm}$

 $x = ?$ A) 2 B) $2\sqrt{3}$ C) 4 D) $4\sqrt{3}$ E) 8

10.

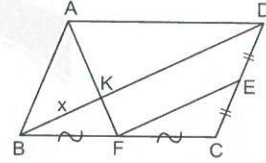


$[AB] // [DC]$
 $[AD] // [BC]$
 $5 \cdot |BF| = 2 \cdot |FD|$
 $|EC| = 12 \text{ cm}$
 $|AD| = x \text{ cm}$

 $x = ?$

A) 16 B) 18 C) 20 D) 22 E) 24

11.

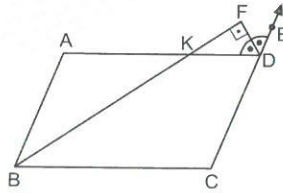


$[AD] // [BC]$
 $[AB] // [DC]$
 $|DE| = |EC|$
 $|BF| = |FC|$
 $|EF| = 12 \text{ cm}$
 $|BK| = x \text{ cm}$

 $x = ?$

A) 12 B) 10 C) 9 D) 8 E) 6

12.



$[AD] // [BC]$
 $[AB] // [DC]$
 $[BF] \perp [FD]$
 $|DC| = 5 \text{ cm}$
 $|BC| = 9 \text{ cm}$
 $|KD| = x \text{ cm}$

 $x = ?$

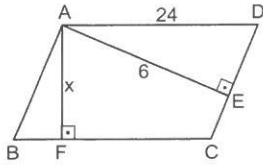
A) 3 B) 4 C) 5 D) 6 E) 8

Cevap Anahtarı – Answer Sheet

1.C	2.D	3.B	4.D	5.A	6.E
7.A	8.C	9.B	10.C	11.D	12.B



1.

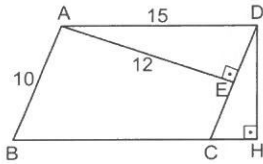


$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $|AD| = 24 \text{ cm}$
 $|DC| = 16 \text{ cm}$
 $|AE| = 6 \text{ cm}$
 $|AF| = x \text{ cm}$

 $x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

2.

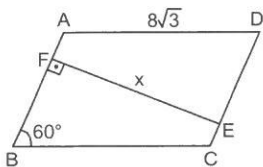


$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $[AE] \perp [DC]$
 $[DH] \perp [BC]$
 $|AD| = 15 \text{ cm}$
 $|AE| = 12 \text{ cm}$
 $|AB| = 10 \text{ cm}$
 $|CH| = x \text{ cm}$

 $x = ?$

A) 4 B) 5 C) 6 D) 7 E) 8

3.

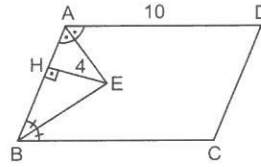


$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $[EF] \perp [AB]$
 $|AD| = 8\sqrt{3} \text{ cm}$
 $|EF| = x \text{ cm}$

 $x = ?$

A) 8 B) 9 C) 10 D) 12 E) 15

4.

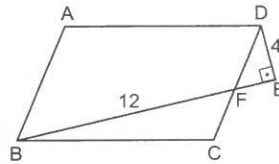


$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $[EH] \perp [AB]$
 $|AD| = 10 \text{ cm}$
 $|HE| = 4 \text{ cm}$

 $s(ABCD) = ? \text{ cm}^2$

A) 80 B) 70 C) 60 D) 50 E) 40

5.

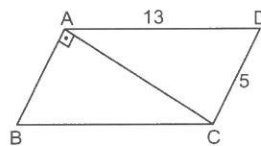


$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $[DE] \perp [BC]$
 $|DF| = 3 \cdot |FC|$
 $|BF| = 12 \text{ cm}$
 $|DE| = 4 \text{ cm}$

 $s(ABCD) = ? \text{ cm}^2$

A) 72 B) 64 C) 56 D) 48 E) 42

6.



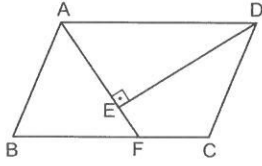
$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AC] \perp [AD]$
 $|DC| = 5 \text{ cm}$
 $|AD| = 13 \text{ cm}$

 $s(ABCD) = ? \text{ cm}^2$

A) 42 B) 48 C) 52 D) 56 E) 60



7.

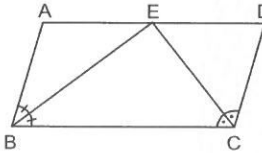


[AB] // [DC]
 [AD] // [BC]
 [DE] ⊥ [AF]
 |DE| = $4\sqrt{3}$ cm
 |AF| = $6\sqrt{3}$ cm

s(ABCD) = ? cm²

- A) 72 B) 64 C) 56 D) 48 E) 36

8.

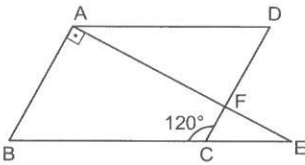


[AD] // [BC]
 [AB] // [DC]
 |AD| = 10 cm
 |CE| = 6 cm

s(ABCD) = ? cm²

- A) 72 B) 60 C) 54 D) 48 E) 36

9.

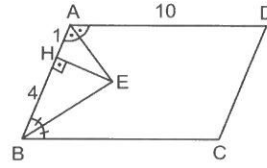


[AD] // [BC]
 [AB] // [DC]
 m(BAE) = 90°
 m(BCD) = 120°
 |BC| = 8 cm
 |AE| = $6\sqrt{3}$ cm

s(ABCD) = ? cm²

- A)
- $20\sqrt{3}$
- B)
- $24\sqrt{3}$
- C)
- $30\sqrt{3}$
-
- D)
- $36\sqrt{3}$
- E)
- $48\sqrt{3}$

10.

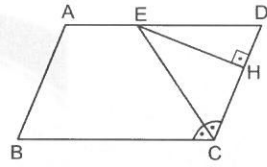


[AD] // [BC]
 [AB] // [DC]
 [EH] ⊥ [AB]
 |AD| = 10 cm
 |AH| = 1 cm
 |HB| = 4 cm

s(ABCD) = ? cm²

- A) 60 B) 50 C) 40 D) 30 E) 20

11.

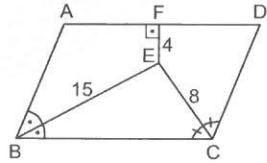


[AD] // [BC]
 [AB] // [DC]
 |EH| = $4\sqrt{3}$ cm
 |AE| = 3 cm
 |EC| = |AB|

s(ABCD) = ? cm²

- A)
- $48\sqrt{3}$
- B)
- $44\sqrt{3}$
- C)
- $40\sqrt{3}$
-
- D)
- $36\sqrt{3}$
- E)
- $32\sqrt{3}$

12.



[AD] // [BC]
 [AB] // [DC]
 [EF] ⊥ [AD]
 |EF| = 4 cm
 |EB| = 15 cm
 |EC| = 8 cm

s(ABCD) = ? cm²

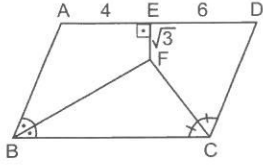
- A) 172 B) 176 C) 180 D) 184 E) 188

Cevap Anahtarı – Answer Sheet

1.C	2.C	3.D	4.A	5.B	6.E
7.A	8.D	9.B	10.C	11.B	12.E



1.

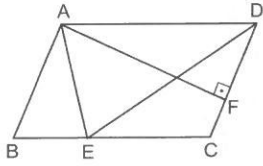


$[AB] \parallel [CD]$
 $[AD] \parallel [BC]$
 $|AE| = 4 \text{ cm}$
 $|DE| = 6 \text{ cm}$
 $|EF| = \sqrt{3} \text{ cm}$

 $s(ABCD) = ? \text{ cm}^2$

- A) $30\sqrt{3}$ B) $32\sqrt{3}$ C) $33\sqrt{3}$
 D) $35\sqrt{3}$ E) $36\sqrt{3}$

2.

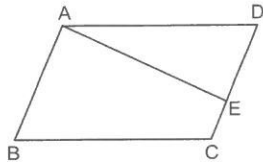


$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $[AF] \perp [DC]$
 $|AB| = 8 \text{ cm}$
 $s(\triangle AED) = 24 \text{ cm}^2$
 $|AF| = x \text{ cm}$

 $x = ?$

- A) 6 B) 8 C) 10 D) 12 E) 15

3.

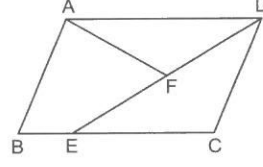


$5|DE| = 3|DC|$
 $s(ABCD) = 80 \text{ cm}^2$

 $s(\triangle AED) = ? \text{ cm}^2$

- A) 16 B) 20 C) 24 D) 28 E) 32

4.

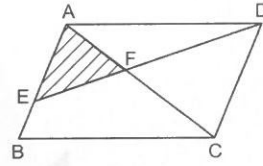


$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $|ED| = 3|FD|$

 $\frac{s(\triangle AFD)}{s(ABCD)} = ?$

- A) $\frac{1}{8}$ B) $\frac{2}{7}$ C) $\frac{1}{6}$ D) $\frac{2}{5}$ E) $\frac{1}{5}$

5.

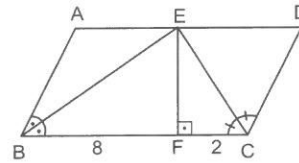


$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $|AE| = 2|EB|$
 $s(EBCF) = 33 \text{ cm}^2$

 $s(\triangle AEF) = ? \text{ cm}^2$

- A) 20 B) 18 C) 15 D) 14 E) 12

6.



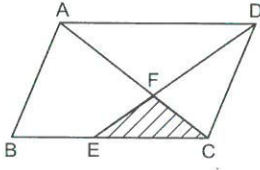
$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $[EF] \perp [BC]$
 $|BF| = 8 \text{ cm}$
 $|FC| = 2 \text{ cm}$

 $s(ABCD) = ? \text{ cm}^2$

- A) 36 B) 40 C) 44 D) 48 E) 52



7.

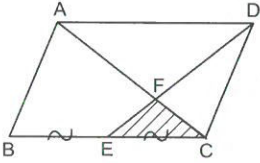


$$\begin{aligned} [AD] // [BC] \\ [AB] // [DC] \\ \frac{|BE|}{|BC|} &= \frac{2}{3} \\ s(\triangle FEC) &= 6 \text{ cm}^2 \end{aligned}$$

$$s(ABCD) = ? \text{ cm}^2$$

- A) 150 B) 144 C) 136 D) 130 E) 128

8.

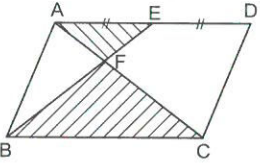


$$\begin{aligned} [AD] // [BC] \\ [AB] // [DC] \\ |BE| &= |EC| \\ s(ABCD) &= 96 \text{ cm}^2 \end{aligned}$$

$$s(\triangle FEC) = ? \text{ cm}^2$$

- A) 6 B) 7 C) 8 D) 9 E) 10

9.

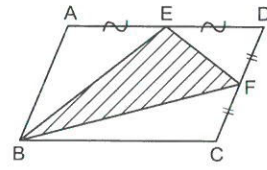


$$\begin{aligned} [AD] // [BC] \\ [AB] // [DC] \\ |AE| &= |ED| \\ s(\triangle AEF) + s(\triangle FBC) &= 30 \text{ cm}^2 \end{aligned}$$

$$s(ABCD) = ? \text{ cm}^2$$

- A) 88 B) 84 C) 80 D) 76 E) 72

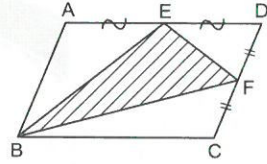
10.



$$\begin{aligned} [AB] // [DC] \\ [AD] // [BC] \\ |AE| &= |ED| \\ |DF| &= |FC| \\ s(ABCD) &= 120 \text{ cm}^2 \end{aligned}$$

- A) 60 B) 55 C) 50 D) 45 E) 40

11.

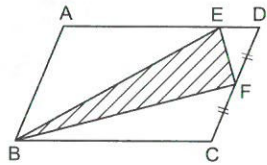


$$\begin{aligned} [AB] // [DC] \\ [AD] // [BC] \\ |AE| &= |ED| \\ |DF| &= |FC| \\ s(\triangle BEF) &= 60 \text{ cm}^2 \end{aligned}$$

$$s(ABCD) = ?$$

- A) 160 B) 144 C) 136 D) 120 E) 108

12.



$$\begin{aligned} [AB] // [DC] \\ [AD] // [BC] \\ |AE| &= 3|ED| \\ |DF| &= |FC| \\ s(\triangle BEF) &= 50 \text{ cm}^2 \end{aligned}$$

$$s(ABCD) = ? \text{ cm}^2$$

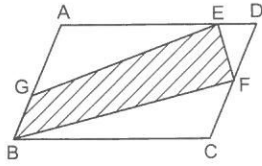
- A) 140 B) 150 C) 160 D) 170 E) 180

Cevap Anahtarı – Answer Sheet

1.D	2.A	3.C	4.C	5.E	6.B
7.B	8.C	9.E	10.D	11.A	12.C



1.

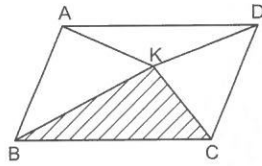


$$\begin{aligned} [AB] // [DC] \\ [AD] // [BC] \\ |DF| = |FC| \\ |AE| = 2|ED| \\ |AG| = 3|GB| \\ s(EFBG) = 80 \text{ cm}^2 \end{aligned}$$

$$s(ABCD) = ? \text{ cm}^2$$

- A) 192 B) 168 C) 144 D) 136 E) 108

2.

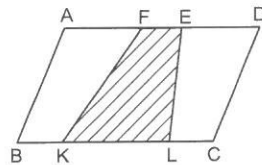


$$\begin{aligned} [AD] // [BC] \\ [AB] // [DC] \\ s(\triangle AKB) = 8 \text{ cm}^2 \\ s(\triangle AKD) = 12 \text{ cm}^2 \\ s(\triangle DKC) = 18 \text{ cm}^2 \end{aligned}$$

$$s(\triangle BKC) = ? \text{ cm}^2$$

- A) 12 B) 14 C) 16 D) 18 E) 20

3.

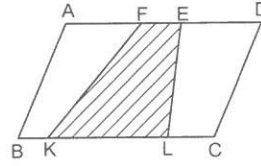


$$\begin{aligned} [AD] // [BC] \\ [AB] // [DC] \\ |AD| = 4 \cdot |EF| \\ |BC| = 2 \cdot |KL| \\ s(ABCD) = 64 \text{ cm}^2 \end{aligned}$$

$$s(EFKL) = ? \text{ cm}^2$$

- A) 26 B) 24 C) 22 D) 20 E) 18

4.

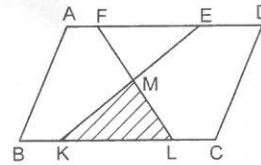


$$\begin{aligned} [AD] // [BC] \\ [AB] // [DC] \\ \frac{|KL|}{|BC|} = \frac{2}{3} \\ \frac{|EF|}{|AD|} = \frac{1}{5} \\ s(EFKL) = 65 \text{ cm}^2 \end{aligned}$$

$$s(ABCD) = ? \text{ cm}^2$$

- A) 170 B) 160 C) 150 D) 140 E) 130

5.

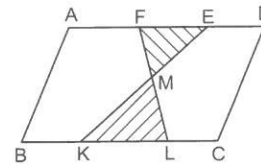


$$\begin{aligned} [AB] // [DC] \\ [AD] // [BC] \\ \frac{|EF|}{|AD|} = \frac{1}{3} \\ \frac{|KL|}{|BC|} = \frac{1}{2} \\ s(\triangle KML) = 27 \text{ cm}^2 \end{aligned}$$

$$s(ABCD) = ? \text{ cm}^2$$

- A) 220 B) 210 C) 200 D) 190 E) 180

6.



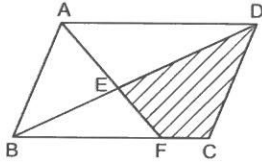
$$\begin{aligned} [AB] // [DC] \\ [AD] // [BC] \\ \frac{|EF|}{|AD|} = \frac{1}{5} \\ \frac{|KL|}{|BC|} = \frac{1}{3} \\ s(ABCD) = 240 \text{ cm}^2 \end{aligned}$$

$$s(\triangle EFM) + s(\triangle MKL) = ?$$

- A) 17 B) 20 C) 28 D) 34 E) 40



7.

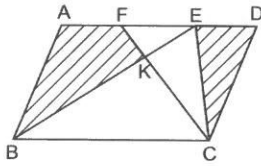


$$\begin{aligned} [AD] // [BC] \\ [AB] // [DC] \\ \frac{|BF|}{|BC|} = \frac{2}{3} \\ s(ABCD) = 120 \text{ cm}^2 \end{aligned}$$

$$s(EFCD) = ?$$

- A) 32 B) 36 C) 44 D) 50 E) 55

8.

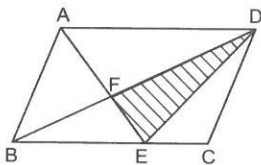


$$\begin{aligned} [AD] // [BC] \\ [AB] // [DC] \\ s(EKF) = 2 \text{ cm}^2 \\ s(KEC) = 4 \text{ cm}^2 \end{aligned}$$

$$s(AFKB) + s(EDC) = ? \text{ cm}^2$$

- A) 16 B) 14 C) 12 D) 10 E) 8

9.

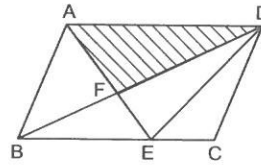


$$\begin{aligned} [AB] // [DC] \\ [AD] // [BC] \\ 3|BC| = 5|BE| \\ s(ABCD) = 80 \text{ cm}^2 \end{aligned}$$

$$s(FED) = ? \text{ cm}^2$$

- A) 12 B) 15 C) 18 D) 20 E) 24

10.

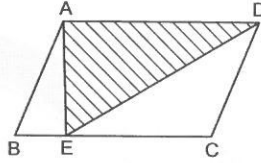


$$\begin{aligned} [AD] // [BC] \\ [AB] // [DC] \\ s(\triangle DEC) = 24 \text{ cm}^2 \\ s(\triangle FBE) = 16 \text{ cm}^2 \end{aligned}$$

$$s(\triangle AFD) = ? \text{ cm}^2$$

- A) 32 B) 36 C) 40 D) 44 E) 48

11.

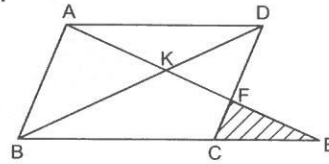


$$\begin{aligned} [AD] // [BC] \\ [AB] // [DC] \\ s(\triangle AED) = 32 \text{ cm}^2 \\ |EC| = 3|EB| \end{aligned}$$

$$s(\triangle DEC) = ? \text{ cm}^2$$

- A) 26 B) 24 C) 22 D) 20 E) 18

12.



$$\begin{aligned} [AD] // [BC] \\ [AB] // [DC] \\ 2|AK| = 3|KF| \\ s(\triangle FCE) = 10 \text{ cm}^2 \end{aligned}$$

$$s(\triangle AKD) = ? \text{ cm}^2$$

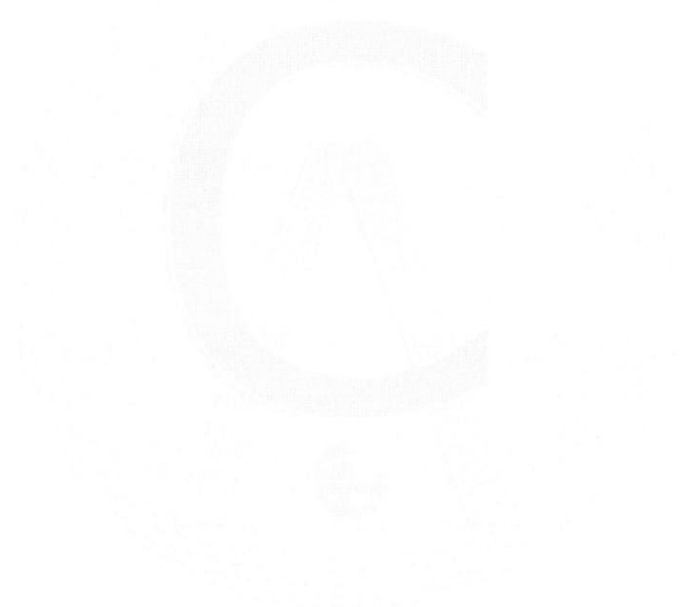
- A) 36 B) 32 C) 30 D) 26 E) 24

Cevap Anahtarı – Answer Sheet

1.A	2.B	3.B	4.C	5.E	6.D
7.C	8.D	9.B	10.C	11.B	12.E

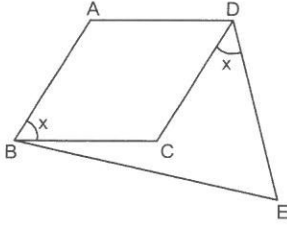
11. BÖLÜM

EŞKENAR DÖRTGEN





1.

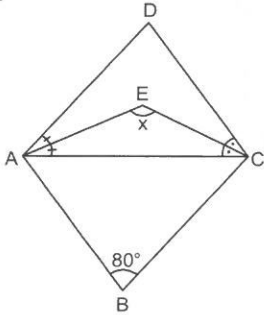


$[AD] // [BC]$
 $[AB] // [DC]$
 $|AB| = |BC| = |CD| = |DA|$
 $m(\widehat{CBE}) = 20^\circ$
 $m(\widehat{DEB}) = 60^\circ$
 $m(\widehat{ABC}) = x$
 $m(\widehat{CDE}) = x$

 $x = ?$

A) 46 B) 48 C) 50 D) 52 E) 54

2.

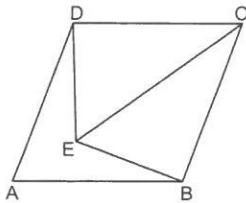


$[AD] // [BC]$
 $[AB] // [DC]$
 $|AB| = |BC| = |CD| = |DA|$
 $m(\widehat{ABC}) = 80^\circ$
 $m(\widehat{AEC}) = x$

 $x = ?$

A) 120 B) 125 C) 130 D) 135 E) 140

3.

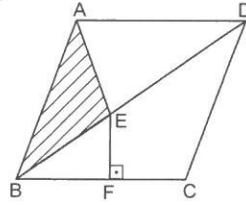


$[AD] // [BC]$
 $[AB] // [DC]$
 $|AB| = |BC| = |CD| = |DA|$
 $|DE| = |EC| = |CD|$
 $m(\widehat{ABE}) = 10^\circ$
 $m(\widehat{EBC}) = x$

 $x = ?$

A) 55 B) 60 C) 65 D) 70 E) 75

4.

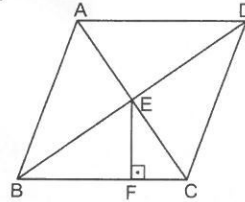


$[AD] // [BC]$
 $[AB] // [DC]$
 $|AB| = |BC| = |CD| = |DA|$
 $[EF] \perp [BC]$
 $|EF| = 6 \text{ cm}$
 $|AD| = 10 \text{ cm}$

 $s(\triangle AEB) = ? \text{ cm}^2$

A) 20 B) 30 C) 40 D) 50 E) 60

5.

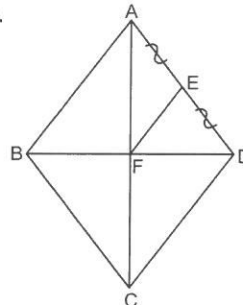


$[AD] // [BC]$
 $[AB] // [DC]$
 $|AB| = |BC| = |CD| = |DA|$
 $[EF] \perp [BC]$
 $|FC| = 2 \text{ cm}$
 $|BF| = 8 \text{ cm}$

 $s(\triangle ABC) = ? \text{ cm}^2$

A) 64 B) 68 C) 72 D) 76 E) 80

6.



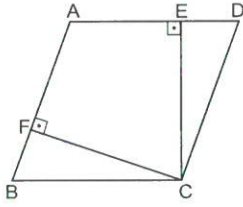
$[AD] // [BC]$
 $[AB] // [DC]$
 $|AB| = |BC| = |CD| = |DA|$
 $|AE| = |ED| = 5 \text{ cm}$
 $|AC| + |DB| = 24 \text{ cm}$

 $s(\triangle ABC) = ? \text{ cm}^2$

A) 44 B) 46 C) 48 D) 50 E) 52



7.

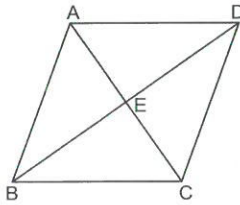


$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $[CF] \perp [AB]$
 $[CE] \perp [AD]$
 $|AB| = |BC| = |CD| = |DA|$
 $|CF| = 12 \text{ cm}$
 $|ED| = 5 \text{ cm}$
 $|AE| = x \text{ cm}$

 $x = ?$

A) 4 B) 5 C) 6 D) 7 E) 8

8.

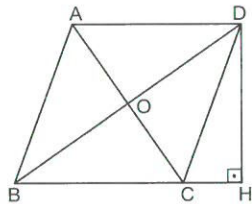


$[AD] \parallel [BC]$
 $|AB| = |BC| = |CD| = |DA|$
 $|AC| = 2|BD|$
 $|AB| = 2\sqrt{5} \text{ cm}$

 $s(ABCD) = ? \text{ cm}^2$

A) 4 B) 8 C) 12 D) 16 E) 20

9.

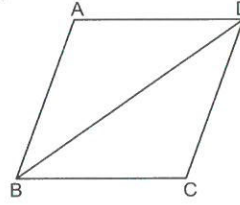


$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $|AB| = |BC| = |CD| = |DA|$
 $[DH] \perp [BC]$
 $|AC| = 2\sqrt{5} \text{ cm}$
 $|DB| = 4\sqrt{5} \text{ cm}$
 $|DH| = x \text{ cm}$

 $x = ?$

A) 4 B) 6 C) 8 D) 10 E) 12

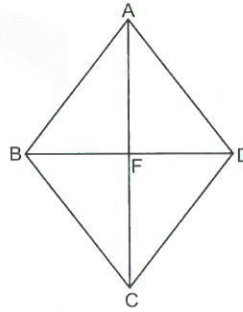
10.



$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $|AB| = |BC| = |CD| = |DA|$
 $m(\widehat{BAC}) = 120^\circ$
 $|BD| = 18 \text{ cm}$

 $s(ABCD) = ? \text{ cm}^2$ A) $36\sqrt{3}$ B) $42\sqrt{3}$ C) $48\sqrt{3}$
D) $54\sqrt{3}$ E) $60\sqrt{3}$

11.

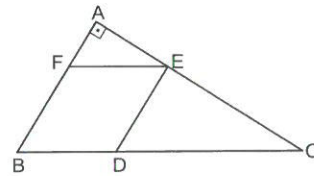


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $|AB| = |BC| = |CD| = |DA|$
 $|BD| = 10 \text{ cm}$
 $|AC| = 24 \text{ cm}$

 $\zeta(ABCD) = ? \text{ cm}$

A) 44 B) 52 C) 56 D) 60 E) 64

12.



$[BF] \parallel [ED]$
 $[FE] \parallel [BD]$
 $|BF| = |FE|$
 $= |ED| = |DB|$
 $|AB| = 12 \text{ cm}$
 $|BC| = 20 \text{ m}$
 $|AE| = x \text{ cm}$

 $x = ?$

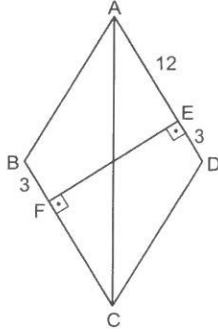
A) 10 B) 9 C) 8 D) 7 E) 6

Cevap Anahtarı – Answer Sheet

1.C	2.C	3.D	4.B	5.E	6.A
7.E	8.D	9.A	10.D	11.B	12.E



1.

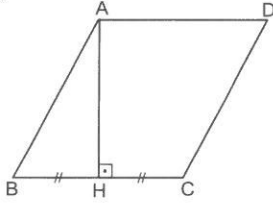


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $|AB| = |BC| = |CD| = |DA|$
 $[FE] \perp [AD]$
 $|ED| = |BF| = 3 \text{ cm}$
 $|AE| = 12 \text{ cm}$

$s(ABCD) = ? \text{ cm}^2$

A) 180 B) 150 C) 120 D) 90 E) 60

2.

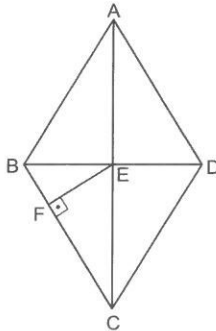


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $|AB| = |BC| = |CD| = |DA|$
 $[AH] \perp [BC]$
 $|AD| = 12 \text{ cm}$

$s(ABCD) = ? \text{ cm}^2$

A) $88\sqrt{3}$ B) $80\sqrt{3}$ C) $72\sqrt{3}$
 D) $64\sqrt{3}$ E) $56\sqrt{3}$

3.

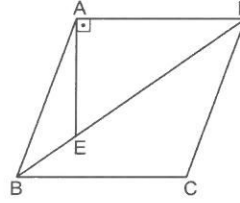


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $|AB| = |BC| = |CD| = |DA|$
 $s(ABCD) = 24\sqrt{2} \text{ cm}^2$
 $|FC| = 2|BF|$

$\zeta(ABCD) = ? \text{ cm}$

A) 10 B) 12 C) 14 D) 16 E) 18

4.

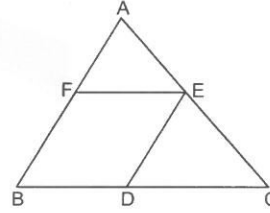


$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $|AB| = |BC| = |CD| = |DA|$
 $[EA] \perp [AD]$
 $|AD| = 40 \text{ cm}$
 $|AE| = 30 \text{ cm}$
 $|BE| = x \text{ cm}$

$x = ?$

A) 20 B) 18 C) 16 D) 14 E) 12

5.

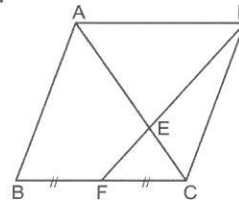


$[FE] \parallel [BD]$
 $[FB] \parallel [DE]$
 $|FE| = |ED| = |DB| = |BF|$
 $|AB| = 8 \text{ cm}$
 $|BC| = 12 \text{ cm}$
 $|AC| = 15 \text{ cm}$
 $|EC| = x \text{ cm}$

$x = ?$

A) 13 B) 12 C) 11 D) 10 E) 9

6.



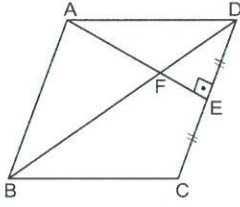
$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $|AB| = |BC| = |CD| = |DA|$
 $|AB| = 10 \text{ cm}$
 $|AC| = 12 \text{ cm}$
 $|ED| = x \text{ cm}$

$x = ?$

A) $2\sqrt{17}$ B) $2\sqrt{15}$ C) 5
 D) $2\sqrt{5}$ E) $\sqrt{17}$



7.

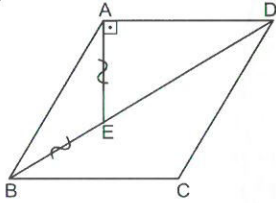


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AE] \perp [DC]$
 $|AB| = |BC| = |CD| = |DA|$
 $|DE| = |EC|$
 $|DF| = 4\sqrt{3}$ cm

 $\angle(ABCD) = ?$ cm

A) 48 B) 44 C) 40 D) 36 E) 32

8.

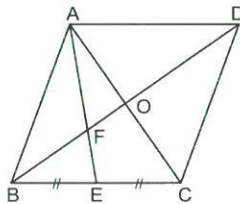


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[EA] \perp [AD]$
 $|AB| = |BC| = |CD| = |DA|$
 $|AE| = |BE|$
 $|ED| = 8\sqrt{3}$ cm
 $|DC| = x$ cm

 $x = ?$

A) 18 B) 16 C) 14 D) 12 E) 10

9.

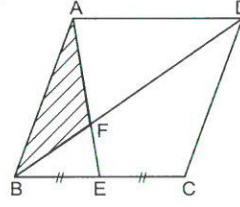


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $|AB| = |BC| = |CD| = |DA|$
 $|BE| = |EC|$
 $|OF| = 2\sqrt{5}$ cm
 $|OC| = 4$ cm
 $|BC| = x$ cm

 $x = ?$

A) 10 B) 12 C) 13 D) 14 E) 15

10.

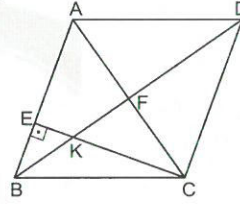


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $|AB| = |BC| = |CD| = |DA|$
 $|BE| = |EC|$
 $s(ABCD) = 60$ cm²

 $s(\triangle ABF) = ?$ cm²

A) 18 B) 16 C) 14 D) 12 E) 10

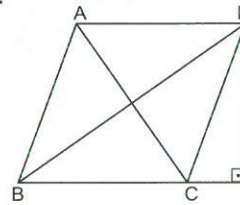
11.



$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $|AB| = |BC| = |CD| = |DA|$
 $[CE] \perp [AB]$
 $|BE| = 6$ cm
 $|EC| = 8$ cm
 $|BD| = x$ cm

 $x = ?$ A) $6\sqrt{10}$ B) $8\sqrt{5}$ C) $4\sqrt{5}$
D) $3\sqrt{10}$ E) 10

12.



$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $|AB| = |BC| = |CD| = |DA|$
 $[DH] \perp [BC]$
 $|AC| = 6$ cm
 $|DB| = 8$ cm
 $|CH| = x$ cm

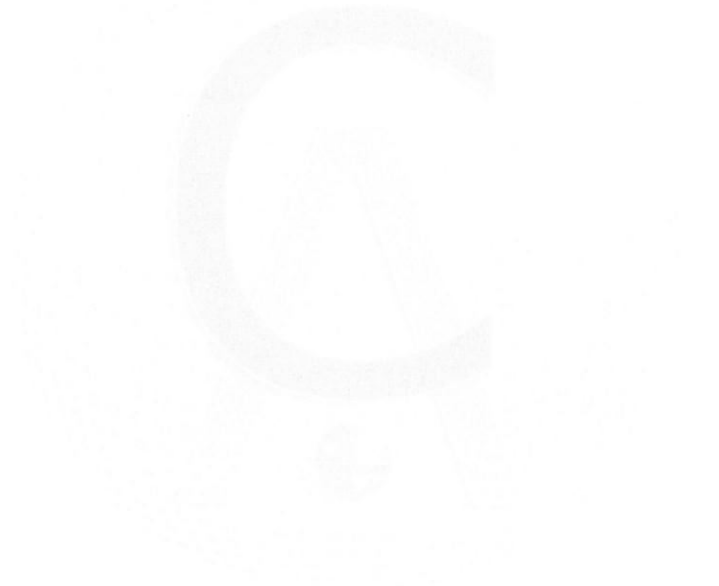
 $x = ?$ A) $\frac{1}{5}$ B) 1 C) $\frac{7}{5}$ D) 4 E) $\frac{24}{5}$

Cevap Anahtarı – Answer Sheet

1.A	2.C	3.B	4.D	5.E	6.A
7.A	8.D	9.D	10.E	11.B	12.C

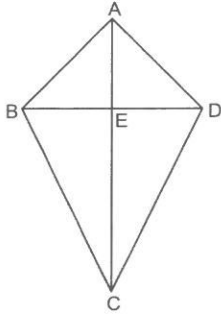
12. BÖLÜM

DELTOİD





1.

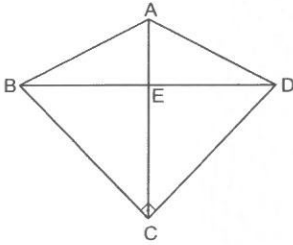


$$\begin{aligned} |AB| &= |AD| \\ |BC| &= |CD| \\ |AE| &= 5 \text{ cm} \\ |EC| &= 9 \text{ cm} \\ |BE| &= 12 \text{ cm} \end{aligned}$$

$$\zeta(ABCD) = ? \text{ cm}$$

- A) 64 B) 60 C) 56 D) 52 E) 48

2.

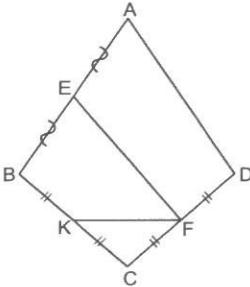


$$\begin{aligned} |AB| &= |AD| \\ |BC| &= |CD| \\ |BC| &\perp |CD| \\ |AE| &= 2 \cdot |EC| \\ |CD| &= 4\sqrt{2} \text{ cm} \end{aligned}$$

$$s(ABCD) = ? \text{ cm}^2$$

- A) 66 B) 60 C) 54 D) 48 E) 42

3.

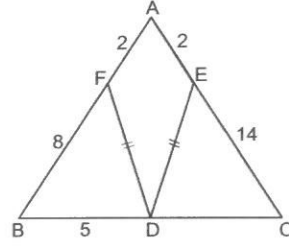


$$\begin{aligned} |AB| &= |AD| \\ |BC| &= |CD| \\ |BE| &= |EA| \\ |BK| &= |KC| \\ |CF| &= |FD| \\ |KF| &= 4 \text{ cm} \\ |EF| &= 5 \text{ cm} \end{aligned}$$

$$s(ABCD) = ? \text{ cm}^2$$

- A) 24 B) 30 C) 36 D) 42 E) 48

4.

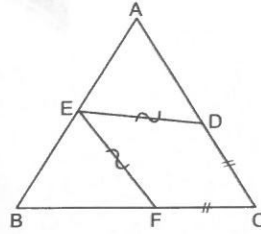


$$\begin{aligned} |AF| &= |AE| = 2 \text{ cm} \\ |FD| &= |DE| \\ |BF| &= 8 \text{ cm} \\ |EC| &= 14 \text{ cm} \\ |BD| &= 5 \text{ cm} \\ |DC| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

- A) 7 B) 8 C) 9 D) 10 E) 11

5.

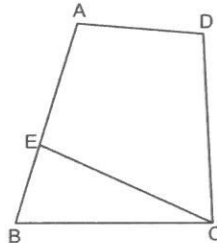


$$\begin{aligned} |ED| &= |EF| \\ |DC| &= |FC| \\ |AC| &= 9 \text{ cm} \\ |BC| &= 15 \text{ cm} \\ |AB| &= 16 \text{ cm} \\ |AE| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

- A) 8 B) $\frac{15}{2}$ C) 7 D) $\frac{13}{2}$ E) 6

6.



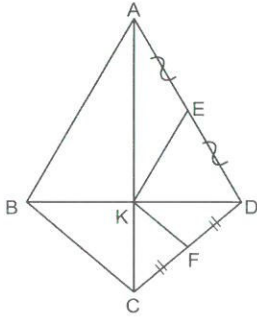
$$\begin{aligned} |AD| &\parallel |BC| \\ |AE| &= |AD| \\ |CE| &= |CD| \\ |AD| &= 8 \text{ cm} \\ |BE| &= 2 \text{ cm} \\ |BC| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

- A) 6 B) 7 C) 8 D) 9 E) 10



7.

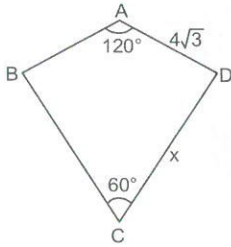


$$\begin{aligned} |AB| &= |AD| \\ |BC| &= |CD| \\ |AE| &= |ED| \\ |CF| &= |FD| \\ |KE| + |KF| &= 4\sqrt{2} \text{ cm} \end{aligned}$$

 $\widehat{C}(ABCD) = ? \text{ cm}$

- A) 8 B)
- $8\sqrt{2}$
- C) 16 D)
- $16\sqrt{2}$
- E) 32

8.

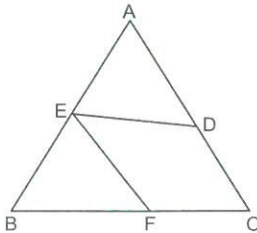


$$\begin{aligned} |AB| &= |AD| \\ |BC| &= |CD| \\ m(\widehat{BAD}) &= 120^\circ \\ m(\widehat{BCD}) &= 60^\circ \\ |AD| &= 4\sqrt{3} \text{ cm} \\ |DC| &= x \text{ cm} \end{aligned}$$

 $x = ?$

- A)
- $4\sqrt{3}$
- B) 8 C)
- $8\sqrt{3}$
- D)
- $10\sqrt{3}$
- E) 12

9.

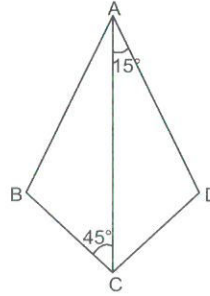


$$\begin{aligned} |ED| &= |EF| \\ |FC| &= |CD| \\ |AE| &= 3 \text{ cm} \\ |BE| &= 4 \text{ cm} \\ |AC| + |BC| &= 14 \text{ cm} \\ |BC| &= x \text{ cm} \end{aligned}$$

 $x = ?$

- A) 4 B) 5 C) 6 D) 7 E) 8

10.

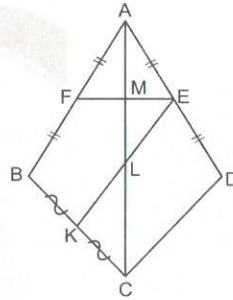


$$\begin{aligned} |AB| &= |AD| \\ |BC| &= |CD| \\ m(\widehat{CAD}) &= 15^\circ \\ m(\widehat{BCA}) &= 45^\circ \\ |AB| &= 4\sqrt{3} \text{ cm} \\ |BC| &= 6 \text{ cm} \end{aligned}$$

 $s(ABCD) = ?$

- A) 12 B) 18 C) 24 D) 30 E) 36

11.

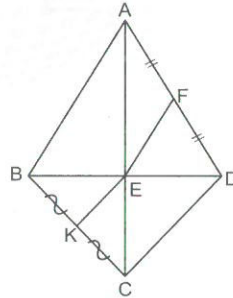


$$\begin{aligned} |AB| &= |AD| \\ |BC| &= |CD| \\ |AF| &= |FB| \\ |AE| &= |ED| \\ |BK| &= |KC| \\ |FE| &= 7 \text{ cm} \\ |KE| &= 25 \text{ cm} \\ |AC| &= x \text{ cm} \end{aligned}$$

 $x = ?$

- A) 24 B) 30 C) 36 D) 42 E) 48

12.



$$\begin{aligned} |AB| &= |AD| \\ |BC| &= |CD| \\ |FE| &= 4 \text{ cm} \\ |KE| &= 5 \text{ cm} \end{aligned}$$

 $\widehat{C}(ABCD) = ?$

- A) 36 B) 32 C) 28 D) 24 E) 20

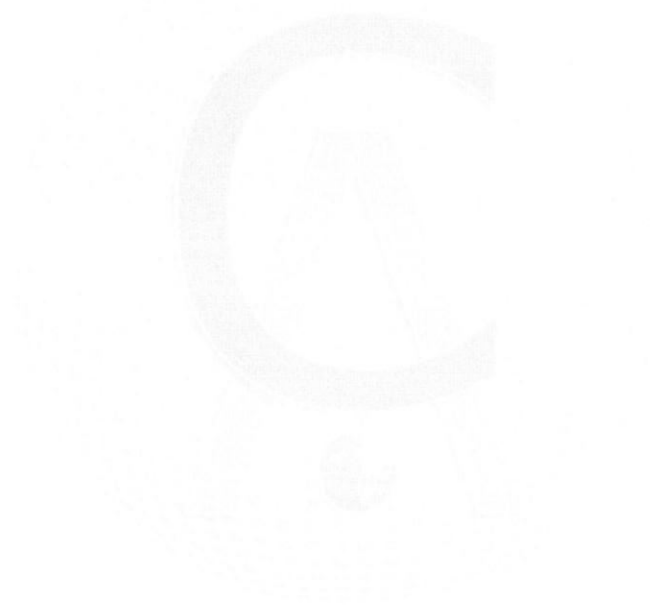
Cevap Anahtarı – Answer Sheet

1.C	2.D	3.A	4.B	5.E	6.E
7.D	8.E	9.E	10.D	11.E	12.A

13. BÖLÜM

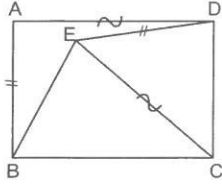
DİKDÖRTGEN







1.

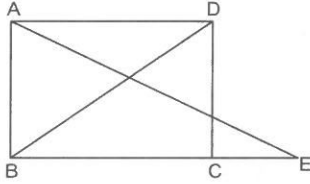


$[AB] // [DC]$
 $[AD] // [BC]$
 $[AB] \perp [BC]$
 $|AD| = |EC|$
 $|AB| = |ED|$
 $m(\widehat{ADE}) = 10^\circ$
 $m(\widehat{ABE}) = x$

 $x = ?$

A) 15 B) 20 C) 25 D) 30 E) 35

2.

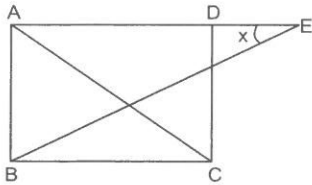


$[AB] // [DC]$
 $[AD] // [BC]$
 $[AB] \perp [BC]$
 $|BD| = |CE|$
 $m(\widehat{ABD}) = 50^\circ$
 $m(\widehat{BEA}) = x$

 $x = ?$

A) 15 B) 20 C) 25 D) 30 E) 35

3.

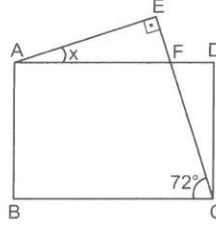


$[AB] // [DC]$
 $[AD] // [BC]$
 $[AB] \perp [BC]$
 $|DE| = |AC|$
 $m(\widehat{ACB}) = 48^\circ$
 $m(\widehat{AEB}) = x$

 $x = ?$

A) 36 B) 32 C) 28 D) 24 E) 20

4.

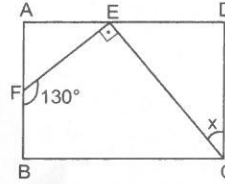


$[AB] // [DC]$
 $[AD] // [BC]$
 $[AB] \perp [BC]$
 $[AE] \perp [EC]$
 $m(\widehat{ECB}) = 72^\circ$
 $m(\widehat{EAF}) = x$

 $x = ?$

A) 18 B) 24 C) 30 D) 36 E) 42

5.

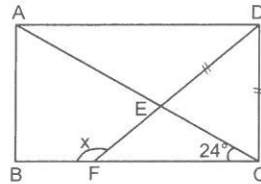


$[AB] // [DC]$
 $[AD] // [BC]$
 $[AB] \perp [BC]$
 $[FE] \perp [EC]$
 $m(\widehat{BFE}) = 130^\circ$
 $m(\widehat{ECD}) = x$

 $x = ?$

A) 60 B) 55 C) 50 D) 45 E) 40

6.



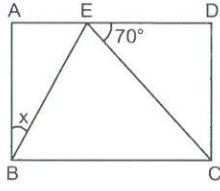
$[AB] // [DC]$
 $[AD] // [BC]$
 $[AB] \perp [BC]$
 $[DE] = [DC]$
 $m(\widehat{ACB}) = 24^\circ$
 $m(\widehat{BFD}) = x$

 $x = ?$

A) 138 B) 136 C) 134 D) 132 E) 130



7.

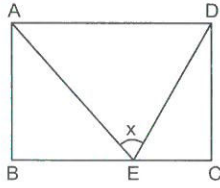


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[DC] \perp [BC]$
 $|BE| = |BC|$
 $m(\widehat{CED}) = 70^\circ$
 $m(\widehat{ABE}) = x$

 $x = ?$

A) 40 B) 45 C) 50 D) 55 E) 60

8.

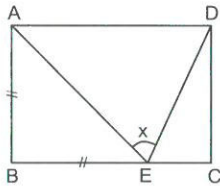


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AD] \perp [DC]$
 $|AD| = |AE| = 8 \text{ cm}$
 $|DC| = 4 \text{ cm}$
 $m(\widehat{AED}) = x$

 $x = ?$

A) 60 B) 65 C) 70 D) 75 E) 80

9.

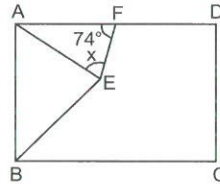


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[DC] \perp [AD]$
 $|AB| = |BE|$
 $m(\widehat{EDC}) = 20^\circ$
 $m(\widehat{AED}) = x$

 $x = ?$

A) 60 B) 65 C) 70 D) 75 E) 80

10.

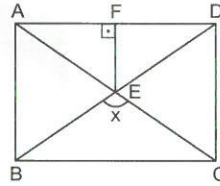


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AD] \perp [DC]$
 $|AE| = |BE| = |DC|$
 $m(\widehat{AFE}) = 74^\circ$
 $m(\widehat{ABE}) = x$

 $x = ?$

A) 68 B) 70 C) 72 D) 74 E) 76

11.

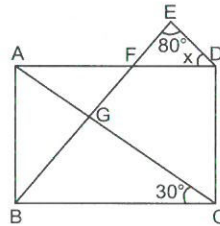


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[BC] \perp [DC]$
 $[FE] \perp [AD]$
 $|AE| = 2 \cdot |EF|$
 $m(\widehat{BEC}) = x$

 $x = ?$

A) 120 B) 90 C) 60 D) 45 E) 30

12.



$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AC| = |BE|$
 $m(\widehat{BED}) = 80^\circ$
 $m(\widehat{ACB}) = 30^\circ$
 $m(\widehat{EDF}) = x$

 $x = ?$

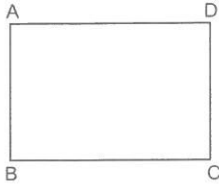
A) 80 B) 60 C) 50 D) 40 E) 30

Cevap Anahtarı – Answer Sheet

1.B	2.B	3.D	4.A	5.E	6.A
7.C	8.D	9.B	10.E	11.A	12.C



1.

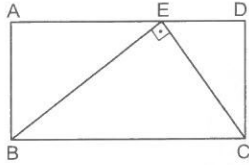


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AD] \perp [BC]$
2. $|AD| = 3 \cdot |AB|$
 $\angle(ABCD) = 30^\circ$

 $s(ABCD) = ? \text{ cm}^2$

- A) 48 B) 54 C) 60 D) 66 E) 72

2.

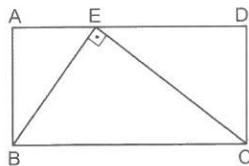


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AD] \perp [BC]$
 $[BE] \perp [EC]$
 $|ED| = 4 \text{ cm}$
 $|AB| = 6 \text{ cm}$
 $|AD| = x \text{ cm}$

 $x = ?$

- A) 9 B) 10 C) 11 D) 12 E) 13

3.

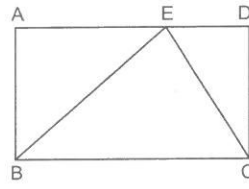


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AD] \perp [BC]$
 $[BE] \perp [EC]$
 $|AE| = 3 \text{ cm}$
 $|AD| = 9 \text{ cm}$
 $|EC| = x \text{ cm}$

 $x = ?$

- A) 3 B) $3\sqrt{3}$ C) $3\sqrt{6}$ D) 6 E) $6\sqrt{3}$

4.

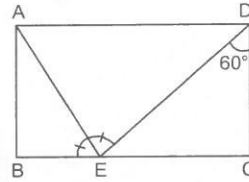


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|BE| = |BC|$
 $|ED| = 4 \text{ cm}$
 $|DC| + |AD| = 18 \text{ cm}$
 $|BC| = x$

 $x = ?$

- A) 8 B) 9 C) 10 D) 11 E) 12

5.

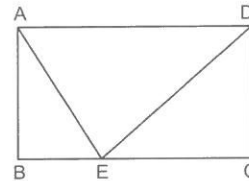


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $m(\widehat{AEB}) = m(\widehat{AED})$
 $|BC| = 16 \text{ cm}$
 $m(\widehat{EDC}) = 60^\circ$

 $s(ABCD) = ? \text{ cm}^2$

- A) 128 B) 112 C) 100 D) 86 E) 72

6.



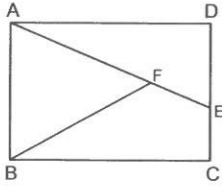
$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AE| = |ED| = |DA|$
 $s(\triangle AED) = 16\sqrt{3} \text{ cm}^2$
 $|DC| = x \text{ cm}$

 $x = ?$

- A) 2 B) $2\sqrt{3}$ C) 4 D) $4\sqrt{3}$ E) 8



7.

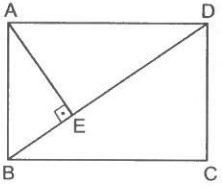


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|EC| = 2 \text{ cm}$
 $|EF| = 2 \text{ cm}$
 $|DC| = 6 \text{ cm}$
 $|AF| = 6 \text{ cm}$
 $m(\widehat{BFE}) = x$

 $x = ?$

A) 135 B) 120 C) 105 D) 100 E) 90

8.

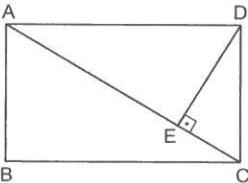


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AD] \perp [DC]$
 $[AE] \perp [BD]$
 $|AE| = 4 \text{ cm}$
 $|BE| = 2 \text{ cm}$

 $s(ABCD) = ? \text{ cm}^2$

A) 32 B) 36 C) 40 D) 44 E) 48

9.

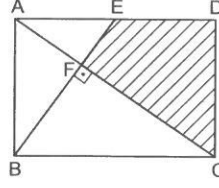


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AD] \perp [DC]$
 $[DE] \perp [AC]$
 $|EC| = 3 \text{ cm}$
 $|EA| = 12 \text{ cm}$

 $s(ABCD) = ? \text{ cm}^2$

A) 112 B) 118 C) 102 D) 96 E) 90

10.

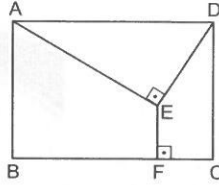


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $[BF] \perp [AC]$
 $|FC| = 16 \text{ cm}$
 $|BF| = 8 \text{ cm}$

 $s(FEDC) = ? \text{ cm}^2$

A) 64 B) 68 C) 72 D) 76 E) 80

11.

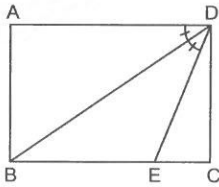


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $[EF] \perp [BC]$
 $[AE] \perp [ED]$
 $|EF| = 2 \text{ cm}$
 $|BF| = 9 \text{ cm}$
 $|FC| = 4 \text{ cm}$

 $\angle(ABCD) = ?$

A) 42 B) 40 C) 38 D) 36 E) 34

12.



$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $m(\widehat{ADB}) = m(\widehat{BDE})$
 $|EC| = 6 \text{ cm}$
 $|DC| = 8 \text{ cm}$

 $s(ABCD) = ? \text{ cm}^2$

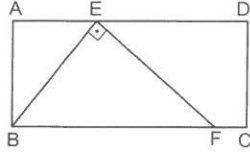
A) 96 B) 104 C) 112 D) 120 E) 128

Cevap Anahtarı – Answer Sheet

1.B	2.E	3.C	4.C	5.A	6.D
7.B	8.C	9.E	10.D	11.A	12.E



1.

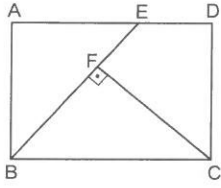


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $[BE] \perp [EF]$
 $|BE| = 4\sqrt{5} \text{ cm}$
 $|AE| = 4 \text{ cm}$
 $|ED| = 17 \text{ cm}$
 $|FC| = x \text{ cm}$

 $x = ?$

- A) $\frac{5}{2}$ B) 2 C) $\frac{3}{2}$ D) 1 E) $\frac{1}{2}$

2.

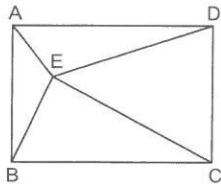


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $[CF] \perp [BE]$
 $|AE| = 6 \text{ cm}$
 $|ED| = 4 \text{ cm}$
 $|DC| = 8 \text{ cm}$
 $|CF| = x \text{ cm}$

 $x = ?$

- A) 9,6 B) 8,4 C) 8 D) 7,2 E) 7

3.

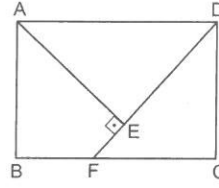


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AE| = 2\sqrt{5} \text{ cm}$
 $|BE| = 6 \text{ cm}$
 $|EC| = 4\sqrt{5} \text{ cm}$
 $|ED| = x \text{ cm}$

 $x = ?$

- A) 8 B) $2\sqrt{14}$ C) $2\sqrt{13}$ D) $4\sqrt{3}$ E) 6

4.

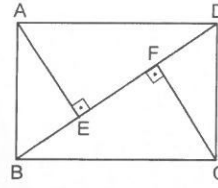


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $[AE] \perp [DF]$
 $|FD| = 9 \text{ cm}$
 $s(ABCD) = 108 \text{ cm}^2$
 $|AE| = x \text{ cm}$

 $x = ?$

- A) 9 B) 12 C) 15 D) 18 E) 24

5.

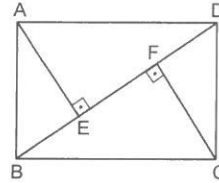


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|FD| = 3 \text{ cm}$
 $|AB| = 3\sqrt{5} \text{ cm}$
 $|EF| = x \text{ cm}$

 $x = ?$

- A) 6 B) 7 C) 8 D) 9 E) 10

6.



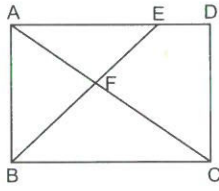
$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $[AE] \perp [BD]$
 $[CF] \perp [BD]$
 $|FD| = 2 \text{ cm}$
 $|AE| = 2\sqrt{5} \text{ cm}$
 $|EF| = x \text{ cm}$

 $x = ?$

- A) 4 B) 5 C) 6 D) 7 E) 8



7.

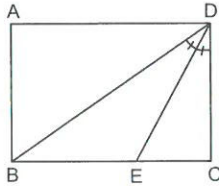


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|ED| = 4 \text{ cm}$
 $|BC| = 12 \text{ cm}$
 $|BF| = 6 \text{ cm}$

 $s(ABCD) = ? \text{ cm}^2$

- A) 56 B) 64 C) 72 D) 80 E) 88

8.

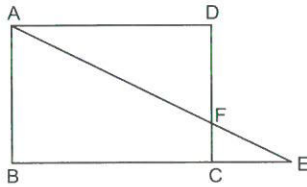


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|BE| = 2 \cdot |EC|$
 $|ED| = 4\sqrt{3} \text{ cm}$
 $|BD| = x \text{ cm}$

 $x = ?$

- A) $4\sqrt{3}$ B) 8 C) $8\sqrt{3}$ D) 12 E) $12\sqrt{3}$

9.

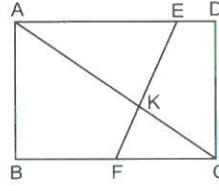


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|CE| = 12 \text{ cm}$
 $|DF| = 10 \text{ cm}$
 $|BC| = 20 \text{ cm}$

 $s(ABCF) = ? \text{ cm}^2$

- A) 180 B) 190 C) 200 D) 210 E) 220

10.

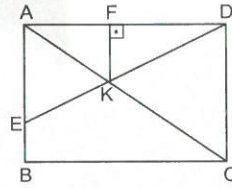


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AE| = 4|ED|$
 $\frac{|FC|}{|BF|} = \frac{2}{3}$

 $\frac{|KE|}{|EF|} = ?$

- A) $\frac{1}{3}$ B) $\frac{2}{3}$ C) $\frac{3}{4}$ D) $\frac{4}{5}$ E) $\frac{4}{7}$

11.

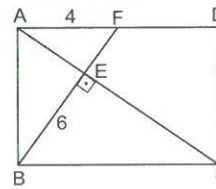


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|DC| = 6 \text{ cm}$
 $|AE| = |EB|$
 $|KF| = x \text{ cm}$

 $x = ?$

- A) 2 B) 2,2 C) 2,4 D) 2,6 E) 2,8

12.



$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $[BE] \perp [AC]$
 $|BE| = 6 \text{ cm}$
 $|AF| = 4 \text{ cm}$
 $|BC| = x \text{ cm}$

 $x = ?$

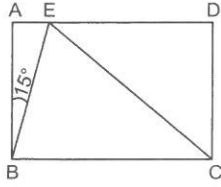
- A) 24 B) 18 C) 15 D) 12 E) 9

Cevap Anahtarı – Answer Sheet

1.D	2.C	3.A	4.B	5.D	6.E
7.C	8.D	9.E	10.B	11.A	12.D



1.

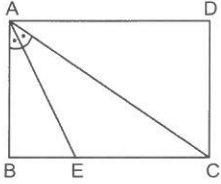


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|CB| = |CE|$
 $m(\widehat{ABE}) = 15^\circ$
 $s(ABCD) = 72 \text{ cm}^2$
 $|DC| = x \text{ cm}$

 $x = ?$

A) 4 B) 5 C) 6 D) 7 E) 8

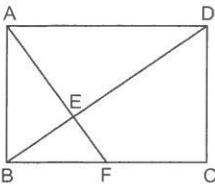
2.



$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $m(\widehat{BAE}) = m(\widehat{EAC})$
 $|AB| = 9 \text{ cm}$
 $|AD| = 12 \text{ cm}$
 $|EC| = x \text{ cm}$

 $x = ?$ A) 3 B) $\frac{9}{2}$ C) 6 D) $\frac{15}{2}$ E) 9

3.

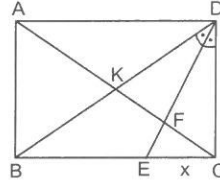


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|BF| = 4 \text{ cm}$
 $|FC| = 12 \text{ cm}$
 $|DC| = x \text{ cm}$

 $x = ?$

A) 6 B) 8 C) 10 D) 12 E) 14

4.

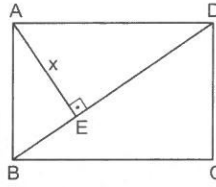


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AD] \perp [DC]$
 $m(\widehat{BDE}) = m(\widehat{EDC})$
 $|AB| = 6 \text{ cm}$
 $|BD| = 10 \text{ cm}$
 $|EC| = x \text{ cm}$

 $x = ?$

A) 7 B) 6 C) 5 D) 4 E) 3

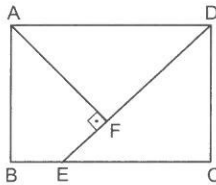
5.



$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AD] \perp [DC]$
 $|DC| = 3 \text{ cm}$
 $|AD| = 4 \text{ cm}$
 $|AE| = x \text{ cm}$

 $x = ?$ A) $\frac{12}{5}$ B) $\frac{14}{5}$ C) 3 D) $\frac{18}{5}$ E) $\frac{24}{5}$

6.



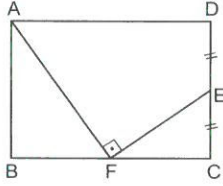
$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AD] \perp [DC]$
 $|AB| = 8 \text{ cm}$
 $|BE| = 4 \text{ cm}$
 $|EC| = 6 \text{ cm}$
 $|EF| = x \text{ cm}$

 $x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6



7.

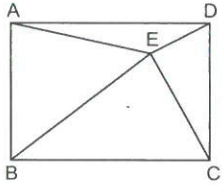


[AB] // [DC]
 [AD] // [BC]
 [BC] $\perp$ [DC]
 [AF] $\perp$ [FE]
 |AF| = $6\sqrt{5}$ cm
 |BF| = 6 cm
 |AD| = x cm

x = ?

A) 10 B) 12 C) 14 D) 16 E) 18

8.

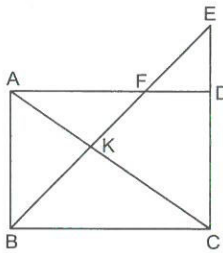


[AB] // [DC]
 [AD] // [BC]
 [BC] $\perp$ [DC]
 |ED| = 2 cm
 |EC| = 6 cm
 |BE| = 8 cm
 |AE| = x cm

x = ?

A) $2\sqrt{7}$ B) $4\sqrt{2}$ C) 6 D) $2\sqrt{10}$ E) $4\sqrt{3}$

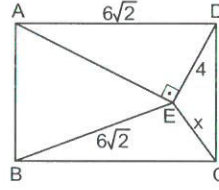
9.



[AB] // [DC]
 [AD] // [BC]
 [BC] $\perp$ [AB]
 |EF| = 5 cm
 |BK| = 6 cm

 $\frac{|AB|}{|ED|} = ?$ A) $\frac{3}{2}$ B) 2 C) $\frac{5}{2}$ D) 3 E) $\frac{7}{2}$

10.

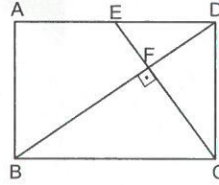


[AB] // [DC]
 [AD] // [BC]
 [AE] $\perp$ [ED]
 [AB] $\perp$ [BC]
 |AD| = $6\sqrt{2}$ cm
 |BE| = $6\sqrt{2}$ cm
 |DE| = 4 cm
 |EC| = x cm

x = ?

A) $3\sqrt{2}$ B) 4 C) $4\sqrt{2}$ D) 6 E) $6\sqrt{2}$

11.

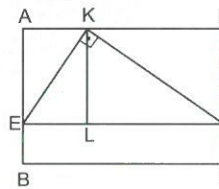


[AB] // [DC]
 [AD] // [BC]
 [AB] $\perp$ [BC]
 [BD] $\perp$ [EC]
 |ED| = 2 cm
 |BC| = 8 cm
 |AB| = x cm

x = ?

A) 2 B) $2\sqrt{2}$ C) 4 D) $4\sqrt{2}$ E) 6

12.



[AB] // [KL] // [DC]
 [AD] // [EF] // [BC]
 [AB] $\perp$ [BC]
 |BE| = |EL|
 |EK| = $6\sqrt{2}$ cm

s(EBCF) = ?

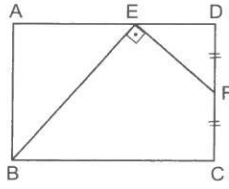
A) 72 B) 68 C) 64 D) 60 E) 56

Cevap Anahtarı – Answer Sheet

1.C	2.D	3.B	4.E	5.A	6.C
7.E	8.B	9.B	10.C	11.C	12.A



1.

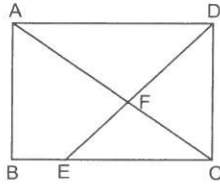


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $[BE] \perp [EF]$
 $|DF| = |FC|$
 $|BC| = 9 \text{ cm}$
 $|ED| = 3 \text{ cm}$

 $s(ABCD) = ? \text{ cm}^2$

A) 72 B) 66 C) 60 D) 54 E) 48

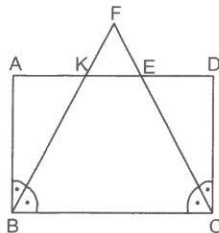
2.



$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|EC| = 3 \cdot |BE|$

 $\frac{s(\triangle ADF)}{s(ABCD)} = ?$
A) $\frac{2}{5}$ B) $\frac{1}{3}$ C) $\frac{2}{7}$ D) $\frac{3}{8}$ E) $\frac{1}{5}$

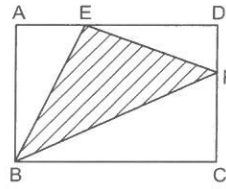
3.



$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AD| = 8\sqrt{2} \text{ cm}$
 $|EC| = 6 \text{ cm}$
 $|KE| = x \text{ cm}$

 $x = ?$ A) $\sqrt{2}$ B) $2\sqrt{2}$ C) 4 D) $3\sqrt{2}$ E) $4\sqrt{2}$

4.

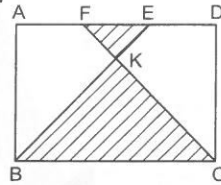


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|ED| = 4 \text{ cm}$
 $|AB| = 5 \text{ cm}$
 $|FC| = 3 \text{ cm}$
 $|AE| = 2 \text{ cm}$

 $s(\triangle BEF) = ? \text{ cm}^2$

A) 20 B) 18 C) 16 D) 14 E) 12

5.

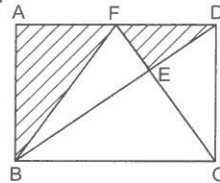


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AF| = |FE| = |ED|$
 $s(\triangle BKC) + s(\triangle FKE) = 30 \text{ cm}^2$

 $s(ABCD) = ?$

A) 72 B) 70 C) 68 D) 66 E) 64

6.



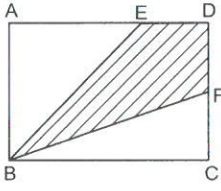
$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AF| = 2|FD|$
 $s(\triangle ABF) + s(\triangle FED) = 72 \text{ cm}^2$

 $s(ABCD) = ? \text{ cm}^2$

A) 192 B) 186 C) 180 D) 174 E) 168



7.

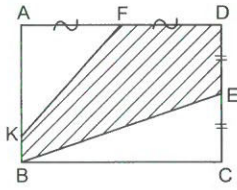


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AE| = 2 \cdot |ED|$
 $|DF| = 2 \cdot |FC|$
 $|AD| = 12 \text{ cm}$
 $|AB| = 9 \text{ cm}$

 $s(BEDF) = ? \text{ cm}^2$

A) 54 B) 56 C) 58 D) 60 E) 62

8.

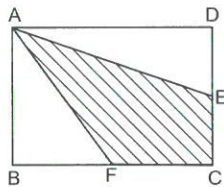


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AK| = 3|KB|$
 $s(BEDF) = 54 \text{ cm}^2$

 $s(ABCD) = ? \text{ cm}^2$

A) 78 B) 84 C) 90 D) 96 E) 102

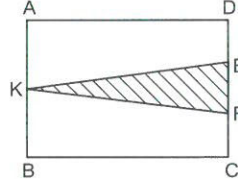
9.



$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|BF| = |FC| = 8 \text{ cm}$
 $|DE| = 2 \text{ cm}$
 $|EC| = 4 \text{ cm}$

A) 64 B) 60 C) 56 D) 52 E) 48

10.

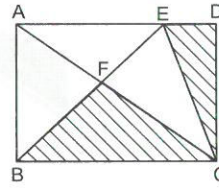


$[AB] \perp [BC]$
 $[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $|DC| = 3 \cdot |EF|$
 $s(\triangle KEF) = 10 \text{ cm}^2$

 $s(ABCD) = ?$

A) 30 B) 40 C) 50 D) 60 E) 70

11.

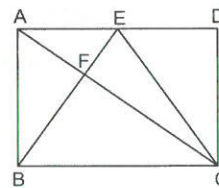


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $s(\triangle BFC) = 16 \text{ cm}^2$
 $s(\triangle EDC) = 10 \text{ cm}^2$

 $s(\triangle AEF) = ? \text{ cm}^2$

A) 5 B) 6 C) 7 D) 8 E) 9

12.



$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $s(\triangle EDC) = 8 \text{ cm}^2$
 $s(\triangle BFC) = 9 \text{ cm}^2$

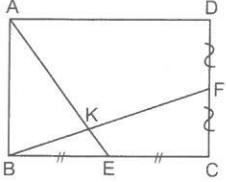
 $s(ABCD) = ? \text{ cm}^2$

A) 40 B) 36 C) 32 D) 28 E) 24

Cevap Anahtarı – Answer Sheet

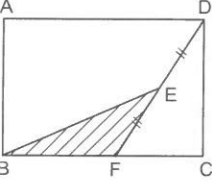
1.D	2.C	3.B	4.E	5.A	6.A
7.A	8.D	9.C	10.D	11.B	12.E



1. 
- [AB] // [DC]
[AD] // [BC]
[AB] ⊥ [BC]
|BE| = |EC|
|DF| = |FC|
 $s(ABCD) = 60 \text{ cm}^2$

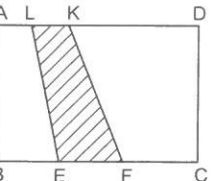
$$s(\triangle ABK) = ? \text{ cm}^2$$

- A) 6 B) 8 C) 10 D) 12 E) 14

2. 
- [AB] // [DC]
[AD] // [BC]
[AB] ⊥ [BC]
|DE| = |EF|
|BF| = 2 * |FC|
 $s(\triangle BEF) = 6 \text{ cm}^2$

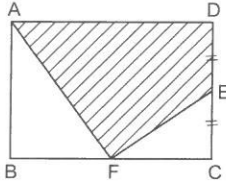
$$s(ABCD) = ? \text{ cm}^2$$

- A) 28 B) 32 C) 36 D) 42 E) 48

3. 
- [AB] // [DC]
[AD] // [BC]
[AB] ⊥ [BC]
|AD| = 6|KL|
|BC| = 2|EF|
 $s(ABCD) = 96 \text{ cm}^2$

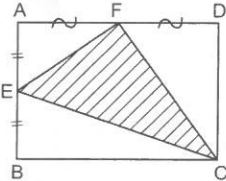
$$s(\triangle EFKL) = ? \text{ cm}^2$$

- A) 28 B) 32 C) 36 D) 40 E) 44

4. 
- [AB] // [DC]
[AD] // [BC]
[AB] ⊥ [BC]
|DE| = |EC|
2. |BF| = 3 * |FC|
 $s(\triangle AFED) = 48 \text{ cm}^2$

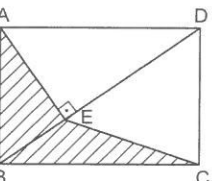
$$s(ABCD) = ? \text{ cm}^2$$

- A) 80 B) 72 C) 64 D) 60 E) 56

5. 
- [AB] // [DC]
[AD] // [BC]
[AB] ⊥ [BC]
|AF| = |FD|
|AE| = |EB|
 $s(ABCD) = 48 \text{ cm}^2$

$$s(\triangle EFC) = ? \text{ cm}^2$$

- A) 26 B) 24 C) 22 D) 20 E) 18

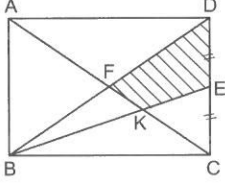
6. 
- [AB] // [DC]
[AD] // [BC]
[AB] ⊥ [BC]
[AE] ⊥ [BD]
|DC| = 5 cm
|AE| = 4 cm

$$s(ABCE) = ? \text{ cm}^2$$

- A) 8 B) 10 C) 12 D) 14 E) 16



7.

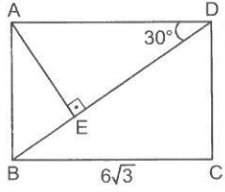


[AB] // [DC]
 [AD] // [BC]
 [AB] ⊥ [BC]
 |DE| = |EC|

$$\frac{s(ABCD)}{s(DEFK)} = ?$$

- A) 8 B) 7 C) 6 D) 5 E) 4

8.

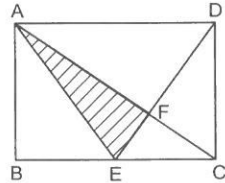


[AB] // [DC]
 [AD] // [BC]
 [AB] ⊥ [BC]
 [AE] ⊥ [BD]
 $m(\widehat{ADB}) = 30^\circ$
 |BC| = $6\sqrt{3}$ cm

$$s(ABCD) = ? \text{ cm}^2$$

- A) $32\sqrt{3}$ B) $36\sqrt{3}$ C) $42\sqrt{3}$
 D) $48\sqrt{3}$ E) $54\sqrt{3}$

9.

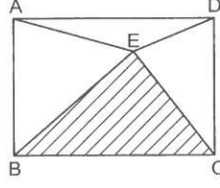


[AB] // [DC]
 [AD] // [BC]
 [AB] ⊥ [BC]
 |AD| = 15 cm
 |EC| = 10 cm
 |DC| = 8 cm

$$s(\triangle AEF) = ? \text{ cm}^2$$

- A) 48 B) 42 C) 36 D) 30 E) 24

10.

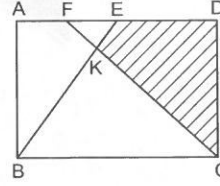


[AB] // [DC]
 [AD] // [BC]
 [AB] ⊥ [BC]
 |AD| = 8 cm
 |DC| = 6 cm
 $s(\triangle AED) = 10 \text{ cm}^2$

$$s(\triangle BEC) = ? \text{ cm}^2$$

- A) 8 B) 10 C) 12 D) 14 E) 16

11.

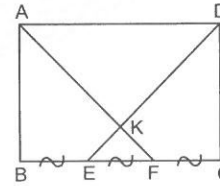


[AB] // [DC]
 [AD] // [BC]
 [AB] ⊥ [BC]
 |ED| = 2 · |EF| = 2 · |AF|
 $s(\triangle KEDC) = 28 \text{ cm}^2$

$$s(ABCD) = ? \text{ cm}^2$$

- A) 80 B) 76 C) 72 D) 68 E) 64

12.



[AB] // [DC]
 [AD] // [BC]
 [AB] ⊥ [BC]
 |BE| = |EF| = |FC|
 $s(\triangle EKF) = 3 \text{ cm}^2$

$$s(ABCD) = ? \text{ cm}^2$$

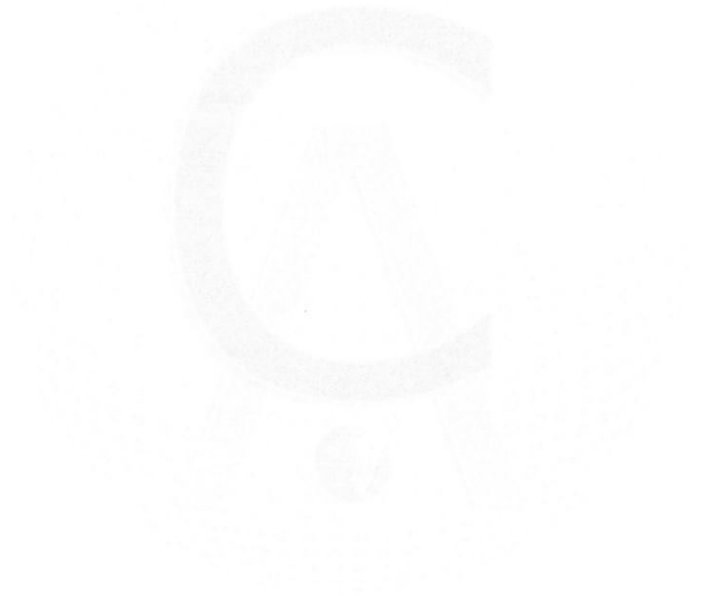
- A) 60 B) 72 C) 84 D) 96 E) 108

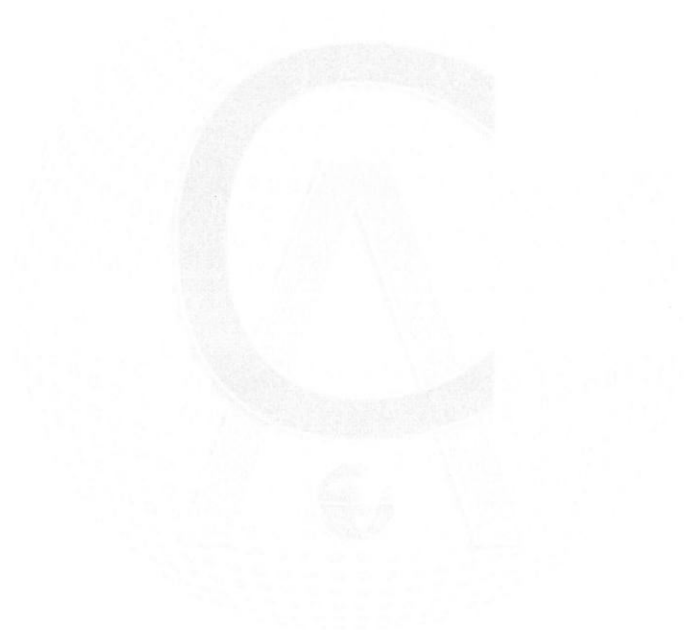
Cevap Anahtarı – Answer Sheet

1.D	2.C	3.B	4.A	5.E	6.C
7.C	8.B	9.E	10.D	11.A	12.B

14. BÖLÜM

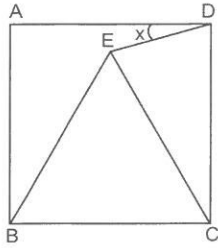
KARE







1.

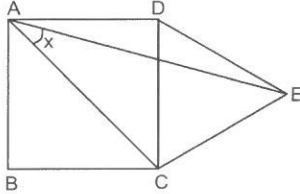


[AB] // [DC]
[AD] // [BC]
[AB] ⊥ [BC]
|AB| = |BC|
|EB| = |BC| = |CE|
 $m(\widehat{ADE}) = x$

 $x = ?$

A) 10 B) 12,5 C) 15 D) 17,5 E) 20

2.

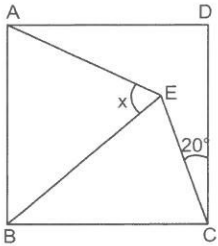


|AB| = |BC| = |CD| = |DE|
 $m(\widehat{ABC}) = m(\widehat{BAD}) = 90^\circ$
|DE| = |EC| = |CD|
 $m(\widehat{CAE}) = x$

 $x = ?$

A) 15 B) 20 C) 25 D) 30 E) 35

3.

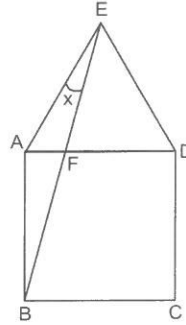


[AB] // [DC]
[AD] // [BC]
[AB] ⊥ [BC]
|AB| = |BC|
|BE| = |BC|
 $m(\widehat{ECD}) = 20^\circ$
 $m(\widehat{AEB}) = x$

 $x = ?$

A) 60 B) 65 C) 70 D) 75 E) 80

4.

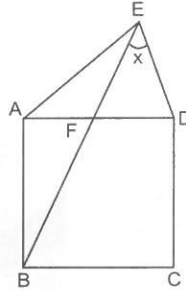


[AB] // [DC]
[AD] // [BC]
[AB] ⊥ [BC]
|AB| = |BC|
|AE| = |AD| = |DE|
 $m(\widehat{AEB}) = x$

 $x = ?$

A) 5 B) 10 C) 15 D) 20 E) 25

5.

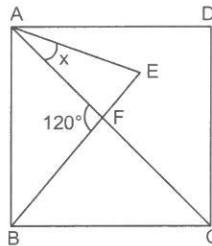


[AB] // [DC]
[AD] // [BC]
[AB] ⊥ [BC]
|AB| = |BC|
|AE| = |DC|
 $m(\widehat{ABE}) = 24^\circ$
 $m(\widehat{BED}) = x$

 $x = ?$

A) 32 B) 35 C) 38 D) 42 E) 45

6.



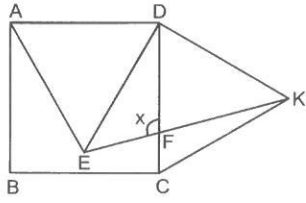
|AB| = |BC| = |CD| = |DA|
 $m(\widehat{A}) = m(\widehat{B}) = 90^\circ$
|AD| = |BE|
 $m(\widehat{AFB}) = 120^\circ$
 $m(\widehat{EAC}) = x$

 $x = ?$

A) 37,5 B) 32,5 C) 30 D) 22,5 E) 15



7.

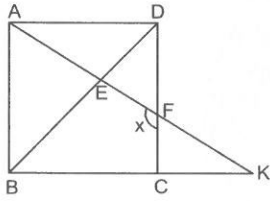


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AB| = |BC|$
 $|AE| = |ED| = |DA|$
 $|DK| = |KC| = |CD|$
 $m(\widehat{DFE}) = x$

 $x = ?$

A) 80 B) 85 C) 90 D) 100 E) 105

8.

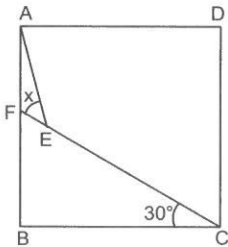


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AB| = |BC|$
 $|BD| = |CK|$
 $m(\widehat{AFC}) = x$

 $x = ?$

A) 102,5 B) 105 C) 112,5 D) 115 E) 122,5

9.

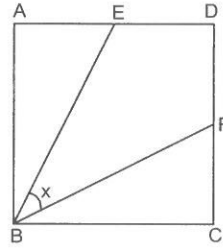


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AB| = |BC|$
 $|CE| = |CD|$
 $m(\widehat{FEA}) = x$

 $x = ?$

A) 75 B) 60 C) 45 D) 30 E) 15

10.

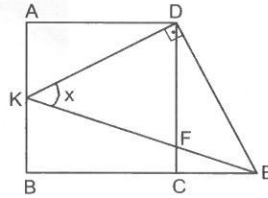


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AB| = |BC|$
 $|AE| = |FC| = 2 \text{ cm}$
 $|AB| = 2\sqrt{3} \text{ cm}$
 $m(\widehat{EBF}) = x$

 $x = ?$

A) 30 B) 37,5 C) 45 D) 52,5 E) 60

11.

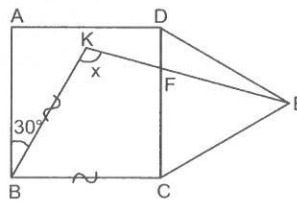


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $[KD] \perp [DE]$
 $|AB| = |BC|$
 $m(\widehat{DKE}) = x$

 $x = ?$

A) 75 B) 60 C) 50 D) 45 E) 30

12.



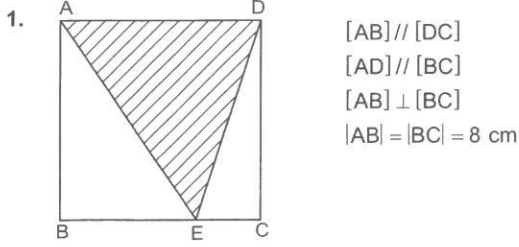
$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AB| = |BC|$
 $|BK| = |BC|$
 $|CD| = |DE| = |EC|$
 $m(\widehat{ABK}) = 30^\circ$
 $m(\widehat{BKE}) = x$

 $x = ?$

A) 135 B) 120 C) 110 D) 105 E) 90

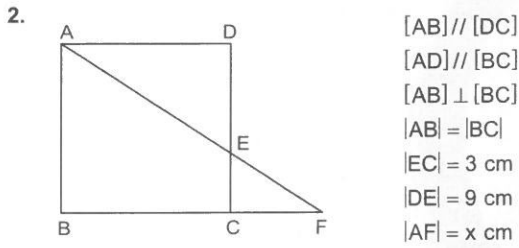
Cevap Anahtarı – Answer Sheet

1.C	2.D	3.B	4.C	5.E	6.A
7.E	8.C	9.C	10.A	11.D	12.D



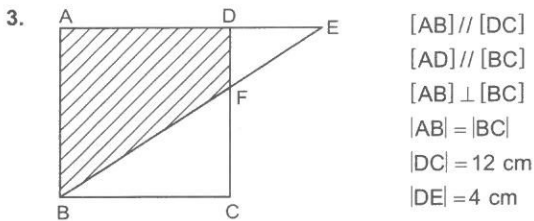
$$s(\triangle DEA) = ? \text{ cm}^2$$

- A) 16 B) 24 C) 32 D) 40 E) 48



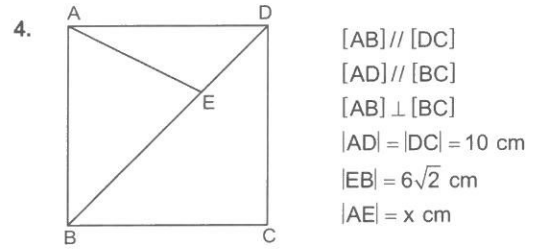
$$x = ?$$

- A) 25 B) 20 C) 18 D) 17 E) 15



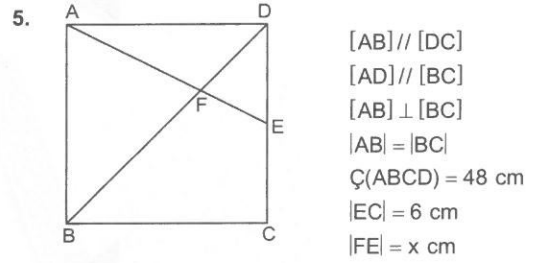
$$s(\triangle ABFD) = ? \text{ cm}^2$$

- A) 108 B) 102 C) 96 D) 90 E) 84



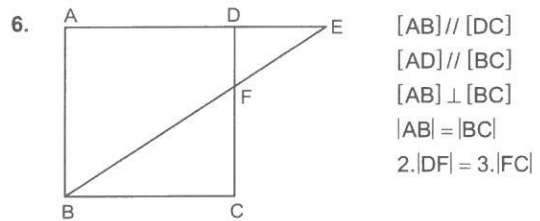
$$x = ?$$

- A) $2\sqrt{13}$ B) $3\sqrt{5}$ C) $2\sqrt{10}$
D) $4\sqrt{2}$ E) $4\sqrt{2}$



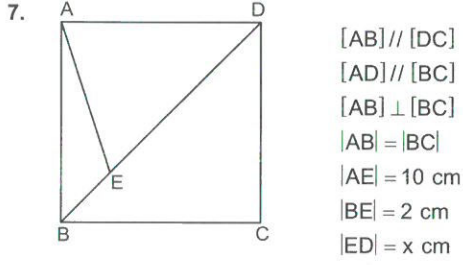
$$x = ?$$

- A) $6\sqrt{5}$ B) $5\sqrt{5}$ C) $4\sqrt{5}$
D) $3\sqrt{5}$ E) $2\sqrt{5}$



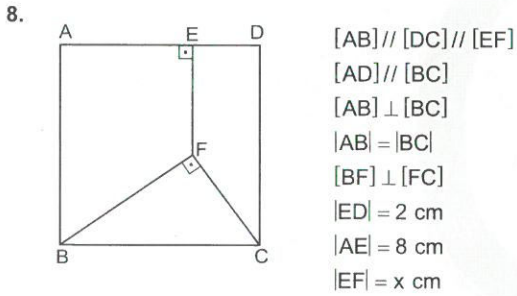
$$\frac{|AE|}{|DE|} = ?$$

- A) $\frac{5}{2}$ B) $\frac{5}{3}$ C) $\frac{5}{4}$ D) $\frac{7}{4}$ E) $\frac{7}{5}$



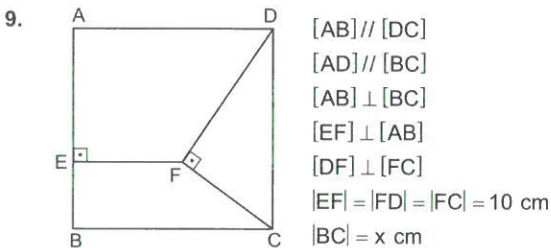
x = ?

- A) 16 B) 14 C) 12 D) 10 E) 8



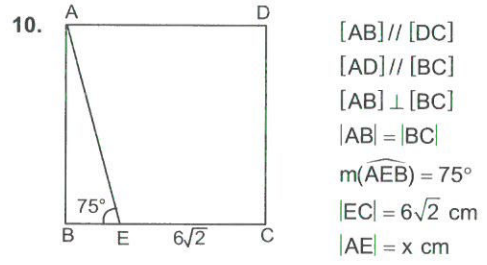
x = ?

- A) 4 B) 5 C) 6 D) 7 E) 8



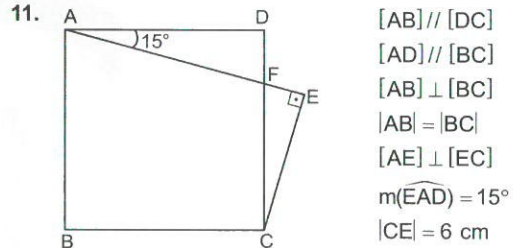
x = ?

- A) 16 B) 15 C) 14 D) 13 E) 12

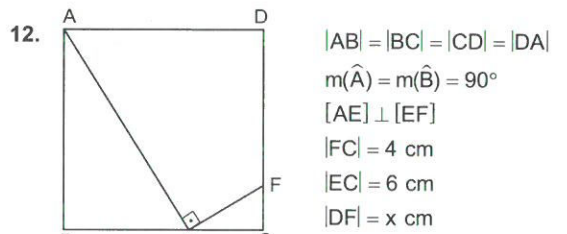


x = ?

- A) 6 B) 8 C) 9 D) 10 E) 12

s(ABCD) = ? cm²

- A) 60 B) 64 C) 68 D) 72 E) 76



x = ?

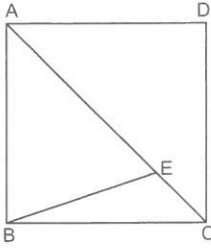
- A) 10 B) 12 C) 14 D) 16 E) 18

Cevap Anahtarı – Answer Sheet

1.C	2.B	3.D	4.A	5.E	6.B
7.B	8.C	9.A	10.E	11.D	12.C



1.

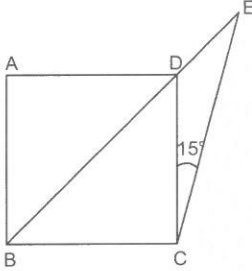


[AB] // [DC]
[AD] // [BC]
[AB] $\perp$ [BC]
|AB| = |BC|
|BE| = 15
|AE| = $12\sqrt{2}$
|AD| = x cm

x = ?

- A) 25 B) 23 C) 21 D) 18 E) 15

2.

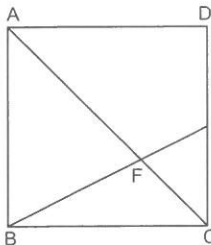


[AB] // [DC]
[AD] // [BC]
[AB] $\perp$ [BC]
|AB| = |BC|
|CE| = 8 cm
|DE| = x cm

x = ?

- A)
- $3\sqrt{3} - 3$
- B)
- $3\sqrt{2} - 3$
- C)
- $4\sqrt{3} - 3$
-
- D)
- $4\sqrt{3} - 4$
- E)
- $6\sqrt{3} - 6$

3.

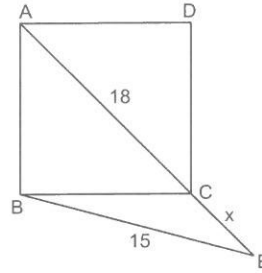


[AB] // [DC]
[AD] // [BC]
[AB] $\perp$ [BC]
|AB| = |BC|
|AF| = $4\sqrt{2}$ cm
|BF| = 5 cm
|DC| = x cm

x = ?

- A) 6 B) 7 C) 8 D) 9 E) 10

4.

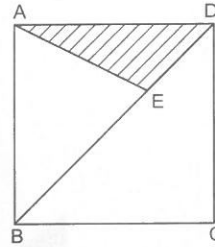


[AB] // [DC]
[AD] // [BC]
[AB] $\perp$ [BC]
|AB| = |BC|
|AE| = 15 cm
|AC| = 18 cm
|EC| = x cm

x = ?

- A) 1 B) 2 C) 3 D) 4 E) 5

5.

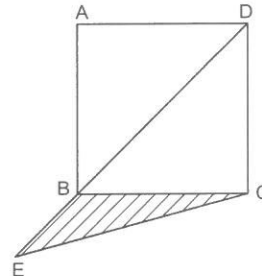


[AB] // [DC]
[AD] // [BC]
[AB] $\perp$ [BC]
|AB| = |BC|
|BE| = 6 cm
|ED| = 4 cm

 $s(\triangle AED) = ? \text{ cm}^2$

- A) 10 B) 12 C) 15 D) 18 E) 20

6.



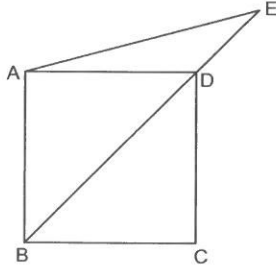
[AB] // [DC]
[AD] // [BC]
[AB] $\perp$ [BC]
|AB| = |BC|
|EB| = 2 cm
|EC| = 10 cm

 $s(\triangle EBC) = ? \text{ cm}^2$

- A) 14 B) 12 C) 10 D) 8 E) 6



7.

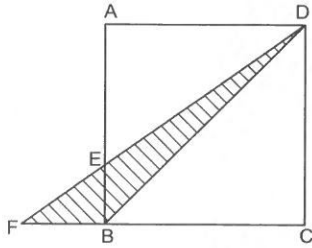


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AB| = |BC|$
 $|DC| = 6\sqrt{2}$ cm
 $|DE| = 2$ cm
 $|AE| = x$ cm

x = ?

A) 10 B) $6\sqrt{2}$ C) 8 D) $2\sqrt{14}$ E) 7

8.

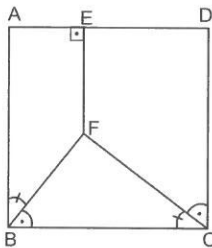


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AB| = |BC|$
 $s(\triangle DFB) = 6$ cm²
 $|FB| = 4$ cm

Ç(ABCD) = ?

A) 24 B) 20 C) 16 D) 12 E) 8

9.

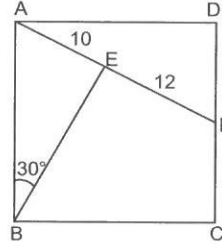


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $[EF] \perp [AD]$
 $|AB| = |BC|$
 $m(\widehat{FBC}) = m(\widehat{FCD})$
 $m(\widehat{FBA}) = m(\widehat{FCB})$
 $|CF| = 8$ cm
 $|DC| = 10$ cm
 $|EF| = x$ cm

x = ?

A) 4,4 B) 4,8 C) 5,2 D) 5,6 E) 6

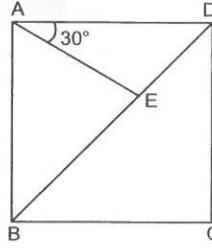
10.



$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AB| = |BC|$
 $|AE| = 10$ cm
 $|EF| = 12$ cm

 $\frac{|BE|}{|DC|} = ?$ A) $\frac{6}{5}$ B) $\frac{5}{6}$ C) $\frac{11}{10}$ D) $\frac{10}{11}$ E) $\frac{8}{11}$

11.

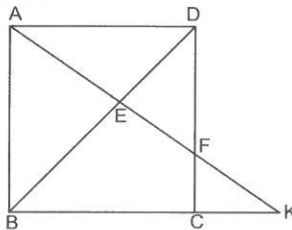


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AB| = |BC|$
 $|DE| = 3\sqrt{2}$ cm
 $|AB| = x$ cm

x = ?

A) $3\sqrt{3} + 3$ B) $3\sqrt{3} + 2$ C) $2\sqrt{3} + 3$
D) $3\sqrt{2} + 2$ E) $3\sqrt{2} + 3$

12.



$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AB| = |BC|$
 $|FC| = 1$ cm
 $|AD| = 4$ cm
 $|AK| = x$ cm

x = ?

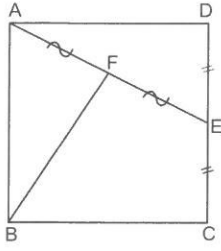
A) $\frac{13}{3}$ B) 5 C) $\frac{17}{3}$ D) 6 E) $\frac{20}{3}$

Cevap Anahtarı – Answer Sheet

1.C	2.D	3.B	4.C	5.A	6.E
7.A	8.D	9.C	10.D	11.A	12.E



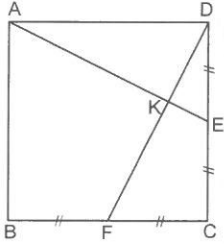
1.



$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AB| = |BC|$
 $|AF| = |FE|$
 $|DE| = |EC|$
 $|BC| = 8 \text{ cm}$
 $|BF| = x \text{ cm}$

 $x = ?$ A) $\sqrt{13}$ B) 4 C) 5 D) 6 E) $2\sqrt{13}$

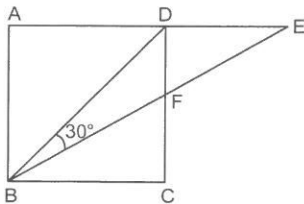
2.



$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AB| = |BC| = 10 \text{ cm}$
 $|DE| = |EC|$
 $|BF| = |FC|$
 $|AK| = x \text{ cm}$

 $x = ?$ A) $\sqrt{5}$ B) $2\sqrt{5}$ C) $3\sqrt{5}$ D) $4\sqrt{5}$ E) $5\sqrt{5}$

3.

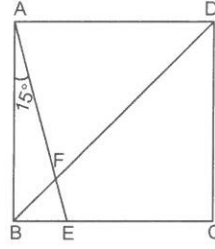


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AB| = |BC|$
 $m(\widehat{DBE}) = 30^\circ$
 $|FE| = 16 \text{ cm}$

 $x = ?$

A) 36 B) 32 C) 28 D) 24 E) 20

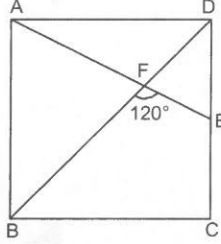
4.



$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AB| = |BC|$
 $m(\widehat{BAE}) = 15^\circ$
 $|AF| = 4 \text{ cm}$
 $|BC| = x \text{ cm}$

 $x = ?$ A) 3 B) $2\sqrt{3}$ C) $2\sqrt{6}$ D) 5 E) $4\sqrt{3}$

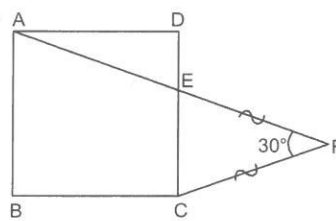
5.



$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AB| = |BC|$
 $m(\widehat{BFE}) = 120^\circ$
 $|FE| = 4\sqrt{3} \text{ cm}$
 $|DE| = x \text{ cm}$

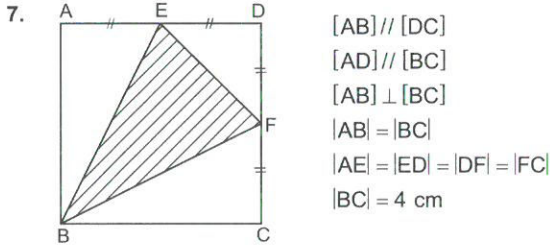
 $x = ?$ A) $6\sqrt{2}$ B) 6 C) $3\sqrt{2}$ D) 3 E) $2\sqrt{2}$

6.



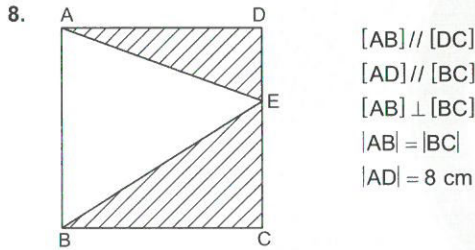
$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AB| = |BC|$
 $|EF| = |FC| = 4\sqrt{3}$
 $m(\widehat{EFC}) = 30^\circ$
 $|AF| = x$

 $x = ?$ A) 16 B) $12\sqrt{3}$ C) 12 D) $8\sqrt{3}$ E) 8



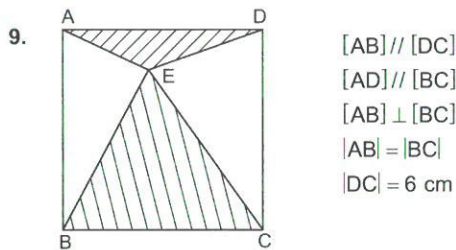
$$s(\triangle BEF) = ? \text{ cm}^2$$

- A) 2 B) 3 C) 4 D) 5 E) 6



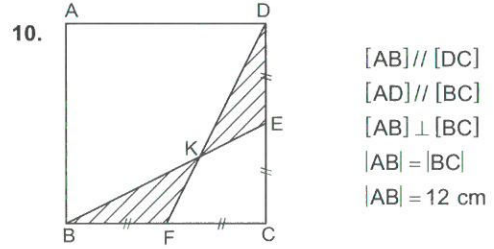
$$s(\triangle ADE) + s(\triangle BEC) = ? \text{ cm}^2$$

- A) 16 B) 20 C) 24 D) 28 E) 32



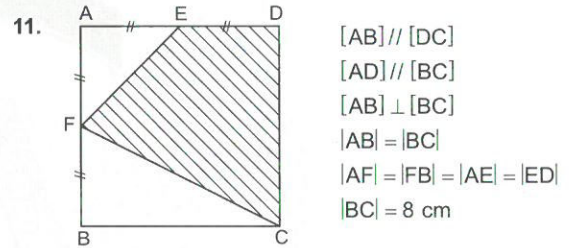
$$s(\triangle AED) + s(\triangle BEC) = ? \text{ cm}^2$$

- A) 12 B) 15 C) 18 D) 21 E) 24



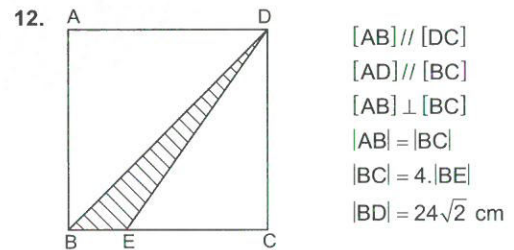
$$s(\triangle BKF) + s(\triangle DKE) = ? \text{ cm}^2$$

- A) 12 B) 16 C) 20 D) 24 E) 28



$$s(\triangle FEDC) = ? \text{ cm}^2$$

- A) 44 B) 40 C) 36 D) 32 E) 28



$$s(\triangle BED) = ? \text{ cm}^2$$

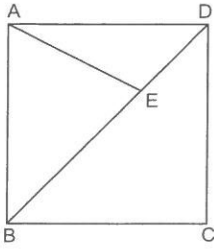
- A) 72 B) 68 C) 64 D) 60 E) 56

Cevap Anahtarı – Answer Sheet

1.E	2.D	3.B	4.C	5.A	6.C
7.E	8.E	9.C	10.D	11.B	12.A



1.

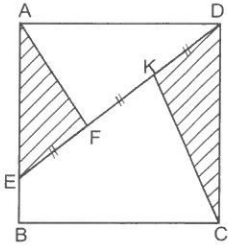


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AB| = |BC|$
 $|AE| = 13 \text{ cm}$
 $|DE| = 7 \text{ cm}$

$$s(\triangle ABCD) = ? \text{ cm}^2$$

A) 196 B) 256 C) 288 D) 312 E) 376

2.

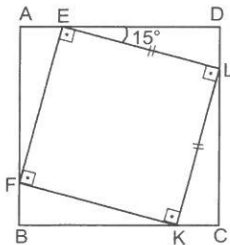


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AB| = |BC|$
 $|AE| = 2|EB|$
 $|EF| = |FK| = |KD|$

$$\frac{s(\triangle KDC)}{s(\triangle AEF)} = ?$$

A) $\frac{2}{3}$ B) $\frac{3}{2}$ C) $\frac{4}{3}$ D) $\frac{3}{4}$ E) 1

3.

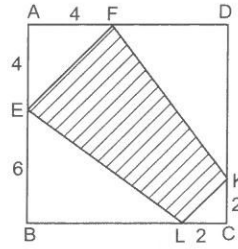


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AB| = |BC|$
 $|EL| = |LK| = |KF| = |FE|$
 $m(\angle LED) = 15$
 $|FK| = 12 \text{ cm}$

$$s(\triangle ABCD) = ? \text{ cm}^2$$

A) 216 B) 196 C) 172 D) 160 E) 144

4.

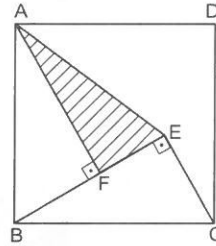


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AD| = |DC|$
 $|AE| = |AF| = 4 \text{ cm}$
 $|EB| = 6 \text{ cm}$
 $|KC| = |LC| = 2 \text{ cm}$

$$s(\triangle EFKL) = ? \text{ cm}^2$$

A) 54 B) 50 C) 46 D) 42 E) 38

5.

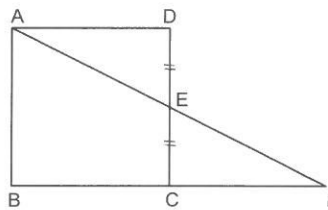


$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AB| = |BC| = 13 \text{ cm}$
 $|EC| = 5 \text{ cm}$

$$s(\triangle AFE) = ? \text{ cm}^2$$

A) 52 B) 49 C) 46 D) 44 E) 42

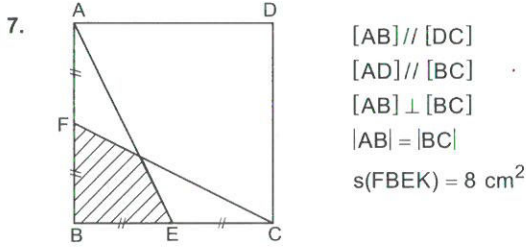
6.



$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AD| = |DC|$
 $|DE| = |EC|$
 $|EF| = 4\sqrt{5} \text{ cm}$

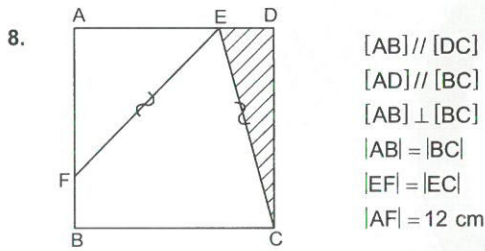
$$s(\triangle ABCD) = ? \text{ cm}^2$$

A) 76 B) 72 C) 68 D) 64 E) 60



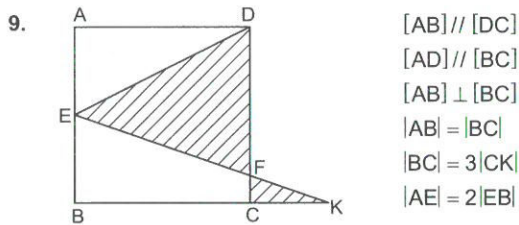
$$s(\triangle ABCD) = ? \text{ cm}^2$$

- A) 42 B) 48 C) 54 D) 60 E) 66



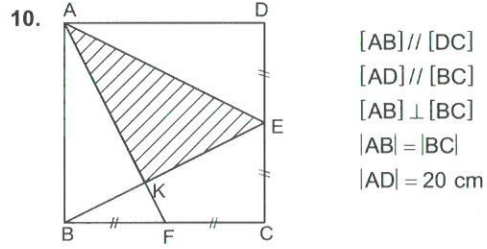
$$s(\triangle EDC) = ? \text{ cm}^2$$

- A) 28 B) 32 C) 36 D) 40 E) 44



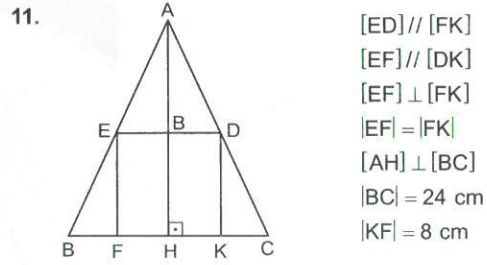
$$\frac{s(\triangle DEF) + s(\triangle FKC)}{s(\triangle ABCD)} = ?$$

- A) $\frac{7}{36}$ B) $\frac{11}{36}$ C) $\frac{13}{36}$ D) $\frac{15}{36}$ E) $\frac{17}{36}$



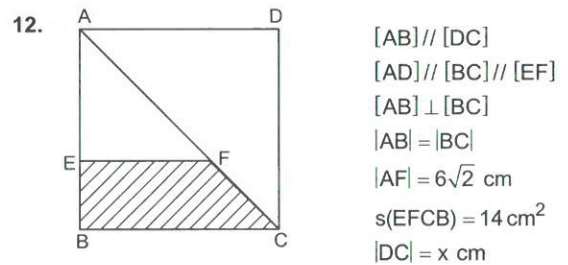
$$s(\triangle AEF) = ? \text{ cm}^2$$

- A) 120 B) 108 C) 96 D) 84 E) 72



$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) 196 B) 172 C) 160 D) 144 E) 120



$$x = ?$$

- A) 9 B) 8 C) 7 D) 6 E) 5

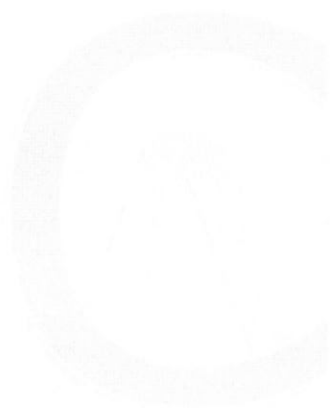
Cevap Anahtarı – Answer Sheet

1.C	2.B	3.A	4.D	5.E	6.D
7.B	8.C	9.E	10.A	11.D	12.B

15. BÖLÜM

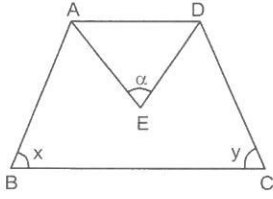
YAMUK







1.

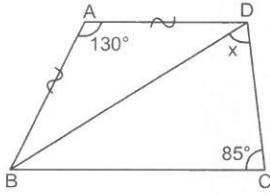


$$\begin{aligned}
 &[AD] \parallel [BC] \\
 &m(\widehat{BAE}) = m(\widehat{EAD}) \\
 &m(\widehat{ADE}) = m(\widehat{EDC}) \\
 &x + y = 140^\circ \\
 &m(\widehat{AED}) = \alpha^\circ
 \end{aligned}$$

$$\alpha^\circ = ?$$

- A) 50 B) 60 C) 70 D) 80 E) 90

2.

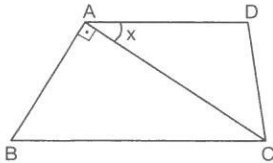


$$\begin{aligned}
 &[AD] \parallel [BC] \\
 &|AD| = |AB| \\
 &m(\widehat{BAD}) = 130^\circ \\
 &m(\widehat{DCB}) = 85^\circ \\
 &m(\widehat{BDC}) = x
 \end{aligned}$$

$$x = ?$$

- A) 65 B) 70 C) 75 D) 80 E) 85

3.

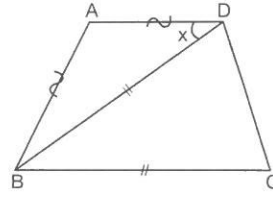


$$\begin{aligned}
 &[AD] \parallel [BC] \\
 &m(\widehat{BAC}) = 90^\circ \\
 &m(\widehat{ABC}) = 4 \cdot m(\widehat{CAD}) \\
 &m(\widehat{CAD}) = x
 \end{aligned}$$

$$x = ?$$

- A) 9 B) 12 C) 15 D) 18 E) 21

4.

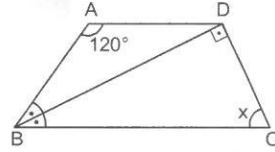


$$\begin{aligned}
 &[AD] \parallel [BC] \\
 &|AB| = |AD| = |DC| \\
 &|BD| = |BC| \\
 &m(\widehat{ADB}) = x
 \end{aligned}$$

$$x = ?$$

- A) 36 B) 32 C) 28 D) 24 E) 20

5.

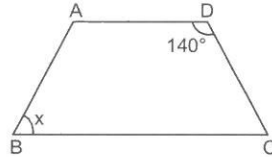


$$\begin{aligned}
 &[AD] \parallel [BC] \\
 &m(\widehat{ABD}) = m(\widehat{DBC}) \\
 &m(\widehat{BAD}) = 120^\circ \\
 &m(\widehat{BDC}) = 90^\circ \\
 &m(\widehat{DCB}) = x
 \end{aligned}$$

$$x = ?$$

- A) 30 B) 45 C) 60 D) 75 E) 80

6.



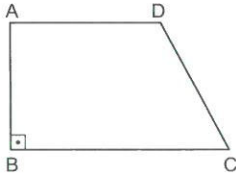
$$\begin{aligned}
 &[AD] \parallel [BC] \\
 &m(\widehat{ADC}) = 140^\circ \\
 &|AD| = 3 \text{ cm} \\
 &|DC| = 7 \text{ cm} \\
 &|BC| = 10 \text{ cm} \\
 &m(\widehat{ABC}) = x
 \end{aligned}$$

$$x = ?$$

- A) 50 B) 55 C) 60 D) 65 E) 70



7.

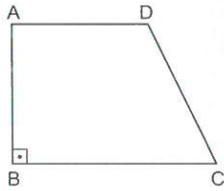


$[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AD| = 12 \text{ cm}$
 $|BC| = 17 \text{ cm}$
 $|AB| = 12 \text{ cm}$
 $|DC| = x \text{ cm}$

 $x = ?$

A) 10 B) 11 C) 12 D) 13 E) 15

8.

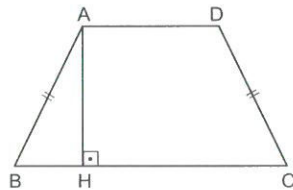


$[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AD| = 8 \text{ cm}$
 $|BC| = 16 \text{ cm}$
 $|AB| = 6 \text{ cm}$
 $|DC| = x \text{ cm}$

 $x = ?$

A) 18 B) 15 C) 13 D) 12 E) 10

9.

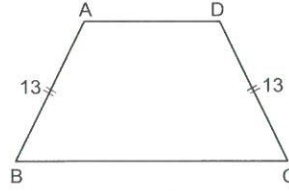


$[AD] \parallel [BC]$
 $|AB| = |DC| = 5 \text{ cm}$
 $|AD| = 4 \text{ cm}$
 $|BC| = 10 \text{ cm}$
 $|AH| = x \text{ cm}$

 $x = ?$

A) 2 B) 3 C) 4 D) 5 E) 6

10.

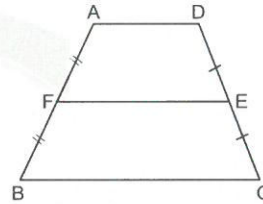


$[AD] \parallel [BC]$
 $|AB| = |DC| = 13 \text{ cm}$
 $|AD| = 6 \text{ cm}$
 $|BC| = 16 \text{ cm}$

 $s(ABCD) = ? \text{ cm}^2$

A) 132 B) 121 C) 110 D) 99 E) 88

11.

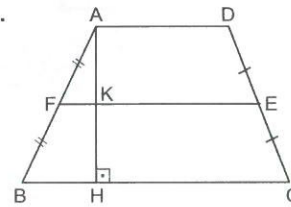


$[AD] \parallel [BC]$
 $|AF| = |FB|$
 $|DE| = |EC|$
 $|FE| = 12 \text{ cm}$

 $|AD| + |BC| = ?$

A) 12 B) 16 C) 20 D) 24 E) 28

12.



$[AD] \parallel [FE] \parallel [BC]$
 $|AF| = |FB|$
 $|DE| = |EC|$
 $[AH] \perp [BC]$
 $|AK| = 4 \text{ cm}$
 $s(ABCD) = 96 \text{ cm}^2$
 $|FE| = x \text{ cm}$

 $x = ?$

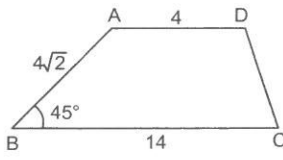
A) 8 B) 12 C) 16 D) 20 E) 24

Cevap Anahtarı – Answer Sheet

1.C	2.B	3.D	4.A	5.C	6.E
7.D	8.E	9.C	10.A	11.D	12.B



1.

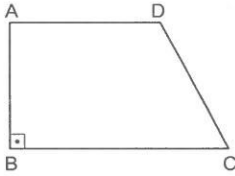


$[AD] \parallel [BC]$
 $m(\widehat{ABC}) = 45^\circ$
 $|AD| = 4 \text{ cm}$
 $|BC| = 14 \text{ cm}$
 $|AB| = 4\sqrt{2} \text{ cm}$

$s(ABCD) = ? \text{ cm}^2$

A) 36 B) 30 C) 24 D) 20 E) 16

2.

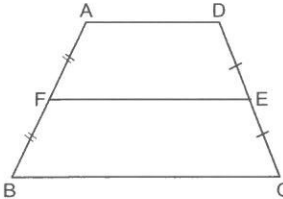


$[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AD| = 4 \text{ cm}$
 $|AB| = 6 \text{ cm}$
 $|DC| = 10 \text{ cm}$

$s(ABCD) = ? \text{ cm}^2$

A) 40 B) 44 C) 48 D) 52 E) 54

3.

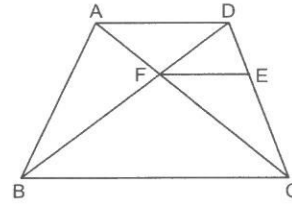


$[AD] \parallel [BC]$
 $|AF| = |FB|$
 $|DE| = |EC|$
 $|EF| = x + 8$
 $|AD| = 3x - 1$
 $|BC| = 4x + 2$

$|EF| = ?$

A) 8 B) 9 C) 10 D) 11 E) 12

4.

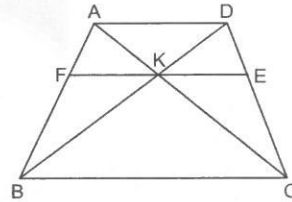


$[AD] \parallel [BC] \parallel [EF]$
 $|AD| = 4 \text{ cm}$
 $|BC| = 12 \text{ cm}$
 $|EF| = x \text{ cm}$

$x = ?$

A) 2,4 B) 2,8 C) 3 D) 3,2 E) 3,6

5.

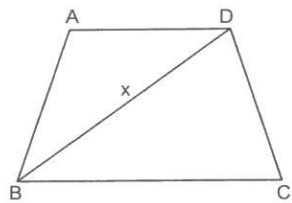


$[AD] \parallel [BC] \parallel [FE]$
 $|EF| = 4 \text{ cm}$
 $|AD| = 3 \text{ cm}$
 $|BC| = x \text{ cm}$

$x = ?$

A) 15 B) 12 C) 10 D) 8 E) 6

6.



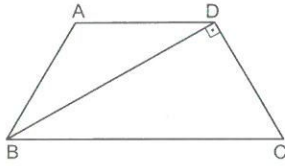
$[AD] \parallel [BC]$
 $|AB| = |AD| = |DC| = 5 \text{ cm}$
 $|BC| = 11 \text{ cm}$
 $|BD| = x \text{ cm}$

$x = ?$

A) $5\sqrt{3}$ B) $4\sqrt{3}$ C) $3\sqrt{3}$ D) $4\sqrt{5}$ E) $3\sqrt{5}$



7.



$$[AD] // [BC]$$

$$|AB| = |AD| = |DC| = 8 \text{ cm}$$

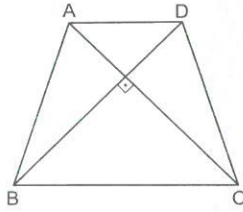
$$[BD] \perp [DC]$$

$$s(ABCD) = ? \text{ cm}^2$$

$$\text{A) } 48\sqrt{3} \quad \text{B) } 48\sqrt{2} \quad \text{C) } 36\sqrt{3}$$

$$\text{D) } 36\sqrt{2} \quad \text{E) } 24\sqrt{3}$$

8.



$$[AD] // [BC]$$

$$[AC] \perp [BD]$$

$$|AB| = |DC|$$

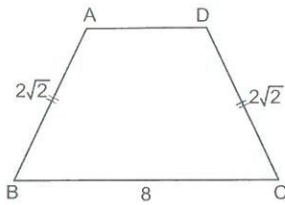
$$|AD| = 3 \text{ cm}$$

$$|BC| = 5 \text{ cm}$$

$$s(ABCD) = ? \text{ cm}^2$$

$$\text{A) } 9 \quad \text{B) } 12 \quad \text{C) } 16 \quad \text{D) } 25 \quad \text{E) } 36$$

9.



$$[AD] // [BC]$$

$$|AB| = |DC| = 2\sqrt{2} \text{ cm}$$

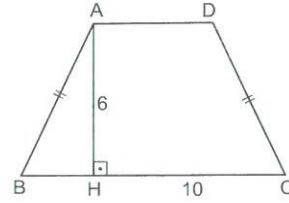
$$m(\widehat{BAD}) = 135^\circ$$

$$|BC| = 8 \text{ cm}$$

$$s(ABCD) = ? \text{ cm}^2$$

$$\text{A) } 8 \quad \text{B) } 12 \quad \text{C) } 16 \quad \text{D) } 20 \quad \text{E) } 24$$

10.



$$[AD] // [BC]$$

$$|AB| = |DC|$$

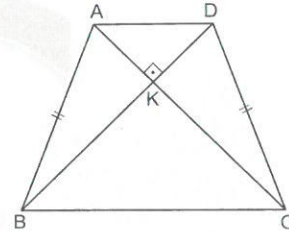
$$|AH| = 6 \text{ cm}$$

$$|HC| = 10 \text{ cm}$$

$$s(ABCD) = ? \text{ cm}^2$$

$$\text{A) } 20 \quad \text{B) } 30 \quad \text{C) } 40 \quad \text{D) } 50 \quad \text{E) } 60$$

11.



$$[AD] // [BC]$$

$$[BD] \perp [AC]$$

$$|AB| = |DC|$$

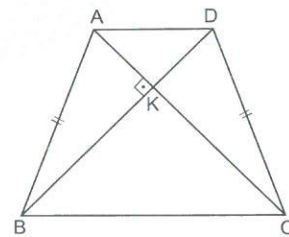
$$|AD| = 2 \text{ cm}$$

$$|BC| = 8 \text{ cm}$$

$$s(ABCD) = ? \text{ cm}^2$$

$$\text{A) } 50 \quad \text{B) } 45 \quad \text{C) } 30 \quad \text{D) } 25 \quad \text{E) } 20$$

12.



$$[AD] // [BC]$$

$$|AB| = |DC|$$

$$[BD] \perp [AC]$$

$$|AD| = 3 \text{ cm}$$

$$|BC| = 9 \text{ cm}$$

$$|AB| = x \text{ cm}$$

$$x = ?$$

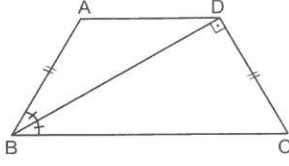
$$\text{A) } 3 \quad \text{B) } 3\sqrt{5} \quad \text{C) } 6 \quad \text{D) } 6\sqrt{5} \quad \text{E) } 9$$

Cevap Anahtarı – Answer Sheet

1.A	2.C	3.D	4.C	5.E	6.D
7.A	8.C	9.B	10.E	11.D	12.B



1.

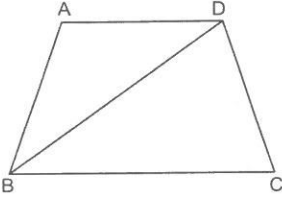


$[AD] \parallel [BC]$
 $|AB| = |DC|$
 $[BD] \perp [DC]$
 $m(\widehat{ABD}) = m(\widehat{DBC})$
 $|BC| = 20 \text{ cm}$

$s(ABCD) = ? \text{ cm}^2$

- A) $75\sqrt{3}$ B) $80\sqrt{3}$ C) $85\sqrt{3}$
 D) $90\sqrt{3}$ E) $100\sqrt{3}$

2.

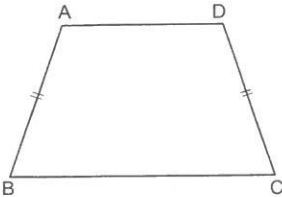


$[AD] \parallel [BC]$
 $|AB| = |AD| = |DC| = 6 \text{ cm}$
 $|BC| = 12 \text{ cm}$
 $|BD| = x \text{ cm}$

$x = ?$

- A) 6 B) $6\sqrt{3}$ C) 9 D) $9\sqrt{3}$ E) 12

3.

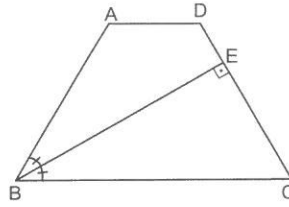


$[AD] \parallel [BC]$
 $|AD| = 4 \text{ cm}$
 $|BC| = 16 \text{ cm}$
 $|AB| = |DC| = 10 \text{ cm}$
 $s(ABCD) = ? \text{ cm}^2$

$s(ABCD) = ? \text{ cm}^2$

- A) 90 B) 84 C) 80 D) 76 E) 72

4.

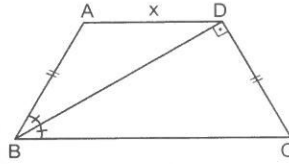


$[AD] \parallel [BC]$
 $[BE] \perp [DC]$
 $|AB| = |DC|$
 $m(\widehat{ABE}) = m(\widehat{EBC})$
 $|DE| = 2 \text{ cm}$
 $|EC| = 6 \text{ cm}$
 $|AD| = x \text{ cm}$

$x = ?$

- A) 3 B) $3\sqrt{3}$ C) 4 D) $4\sqrt{3}$ E) 6

5.

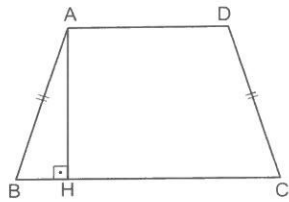


$[AD] \parallel [BC]$
 $[BD] \perp [DC]$
 $|AB| = |DC|$
 $m(\widehat{ABD}) = m(\widehat{DBC})$
 $|BC| = 16 \text{ cm}$
 $|AD| = x \text{ cm}$

$x = ?$

- A) 4 B) 5 C) 6 D) 7 E) 8

6.



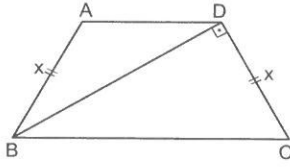
$[AD] \parallel [BC]$
 $[AH] \perp [BC]$
 $|AB| = |DC|$
 $|AH| = 4\sqrt{3} \text{ cm}$
 $s(ABCD) = 72 \text{ cm}^2$
 $|HC| = x \text{ cm}$

$x = ?$

- A) 12 B) $9\sqrt{3}$ C) 9 D) $6\sqrt{3}$ E) 6



7.

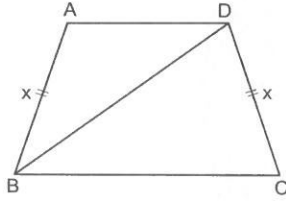


$[AD] \parallel [BC]$
 $|AB| = |DC|$
 $[BD] \perp [DC]$
 $|AD| = 10 \text{ cm}$
 $|BC| = 14 \text{ cm}$
 $|AB| = x \text{ cm}$

 $x = ?$

- A) $2\sqrt{5}$ B) $2\sqrt{7}$ C) $4\sqrt{2}$
 D) $4\sqrt{3}$ E) $5\sqrt{2}$

8.

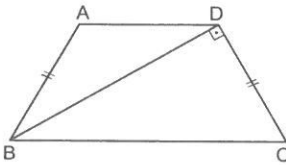


$[AD] \parallel [BC]$
 $|AB| = |DC|$
 $|AD| = 10 \text{ cm}$
 $|BC| = 14 \text{ cm}$
 $|BD| = 13 \text{ cm}$
 $|AB| = x \text{ cm}$

 $x = ?$

- A) $\sqrt{33}$ B) $4\sqrt{2}$ C) $\sqrt{31}$
 D) $\sqrt{29}$ E) $2\sqrt{7}$

9.

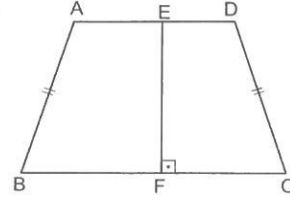


$[AD] \parallel [BC]$
 $|AB| = |DC|$
 $[AH] \perp [BC]$
 $|AH| = 6 \text{ cm}$
 $|BD| = 10 \text{ cm}$

 $s(ABCD) = ? \text{ cm}^2$

- A) 36 B) 42 C) 48 D) 54 E) 60

10.

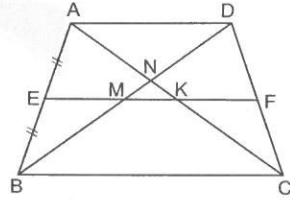


$[AD] \parallel [BC]$
 $[EF] \perp [BC]$
 $|AB| = |DC|$
 $|ED| = 4 \text{ cm}$
 $|BF| = 8 \text{ cm}$
 $|EF| = 10 \text{ cm}$

 $s(ABCD) = ? \text{ cm}^2$

- A) 120 B) 110 C) 100 D) 90 E) 80

11.

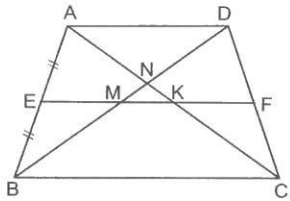


$[AD] \parallel [EF] \parallel [BC]$
 $|AE| = |EB|$
 $|BC| = 12 \text{ cm}$
 $|KF| = 5 \text{ cm}$
 $|MK| = x \text{ cm}$

 $x = ?$

- A) $\frac{1}{2}$ B) 1 C) $\frac{3}{2}$ D) 2 E) $\frac{5}{2}$

12.



$[AD] \parallel [EF] \parallel [BC]$
 $|AE| = |EB|$
 $|MK| = 3 \text{ cm}$
 $|EF| = 10 \text{ cm}$
 $|BC| = x \text{ cm}$

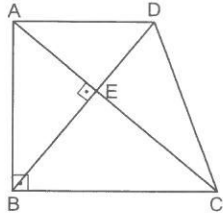
 $x = ?$

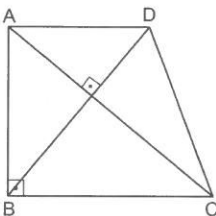
- A) 11 B) 13 C) 15 D) 17 E) 19

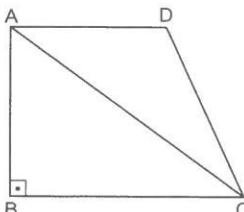
Cevap Anahtarı – Answer Sheet

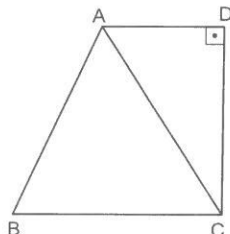
1.A	2.B	3.C	4.C	5.E	6.D
7.B	8.D	9.C	10.A	11.B	12.B

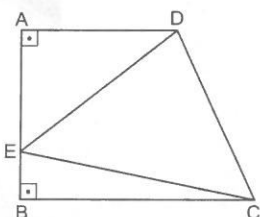


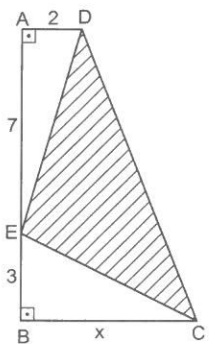
1. 
- $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $[AC] \perp [BD]$
 $|AD| = 3 \text{ cm}$
 $|BC| = 12 \text{ cm}$
- $s(ABCD) = ? \text{ cm}^2$
- A) 36 B) 45 C) 60 D) 72 E) 90

2. 
- $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $[AC] \perp [BD]$
 $|AB| = 6 \text{ cm}$
 $|AD| = 4 \text{ cm}$
- $s(ABCD) = ? \text{ cm}^2$
- A) 48 B) 45 C) 42 D) 39 E) 36

3. 
- $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|DC| = 15 \text{ cm}$
 $|AD| = 7 \text{ cm}$
 $|BC| = 16 \text{ cm}$
 $|AC| = x \text{ cm}$
- $x = ?$
- A) 20 B) 22 C) 25 D) 28 E) 30

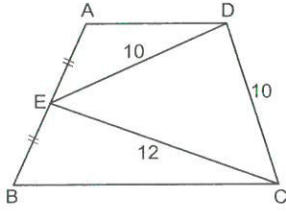
4. 
- $[AD] \parallel [BC]$
 $[AD] \perp [DC]$
 $|AD| = 4 \text{ cm}$
 $|AB| = |BC| = 6 \text{ cm}$
 $|AC| = x \text{ cm}$
- $x = ?$
- A) 4 B) $4\sqrt{2}$ C) $4\sqrt{3}$ D) 8 E) $8\sqrt{2}$

5. 
- $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AE| = 6 \text{ cm}$
 $|EB| = 4 \text{ cm}$
 $|BC| = 8 \text{ cm}$
 $s(\triangle EDC) = 32 \text{ cm}^2$
 $|AD| = x \text{ cm}$
- $x = ?$
- A) 2 B) 3 C) 4 D) 5 E) 6

6. 
- $[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $|AE| = 6 \text{ cm}$
 $s(\triangle EDC) = 24 \text{ cm}^2$
 $|AE| = 7 \text{ cm}$
 $|EB| = 3 \text{ cm}$
 $|BC| = x \text{ cm}$
- $x = ?$
- A) 10 B) 9 C) 8 D) 7 E) 6



7.

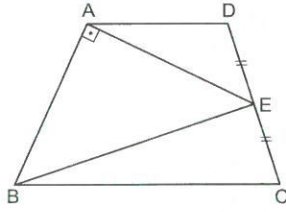


$[AD] \parallel [BC]$
 $|ED| = |DC| = 10 \text{ cm}$
 $|EC| = 12 \text{ cm}$
 $|AE| = |EB|$

$s(ABCD) = ? \text{ cm}^2$

A) 84 B) 90 C) 96 D) 102 E) 108

8.

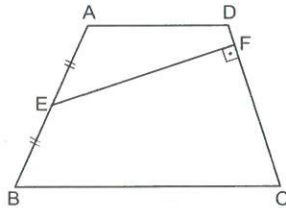


$[AD] \parallel [BC]$
 $[EA] \perp [AB]$
 $|EA| = 8 \text{ cm}$
 $|AB| = 10 \text{ cm}$

$s(ABCD) = ? \text{ cm}^2$

A) 80 B) 70 C) 60 D) 50 E) 40

9.

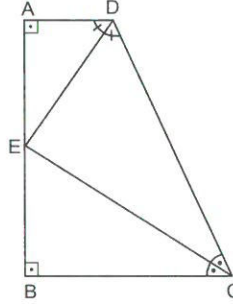


$[AD] \parallel [BC]$
 $[EF] \perp [DC]$
 $|AE| = |EB|$
 $|EF| = 9 \text{ cm}$
 $|DC| = 6 \text{ cm}$

$s(ABCD) = ? \text{ cm}^2$

A) 40 B) 54 C) 68 D) 84 E) 108

10.

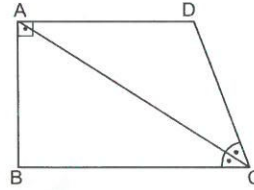


$[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $m(\widehat{ADE}) = m(\widehat{EDC})$
 $m(\widehat{ECB}) = m(\widehat{DCE})$
 $|AD| = 3 \text{ cm}$
 $|BC| = 12 \text{ cm}$

$s(ABCD) = ? \text{ cm}^2$

A) 108 B) 102 C) 96 D) 90 E) 84

11.

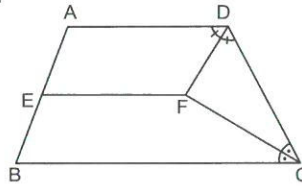


$[AD] \parallel [BC]$
 $[AB] \perp [AD]$
 $m(\widehat{DCA}) = m(\widehat{BCA})$
 $|AB| = 8 \text{ cm}$
 $|BC| = 16 \text{ cm}$

$s(ABCD) = ? \text{ cm}^2$

A) 88 B) 92 C) 96 D) 100 E) 104

12.



$[AD] \parallel [EF] \parallel [BC]$
 $|BC| = 16 \text{ cm}$
 $|AD| = 10 \text{ cm}$
 $|DC| = 8 \text{ cm}$
 $|EF| = x \text{ cm}$

$x = ?$

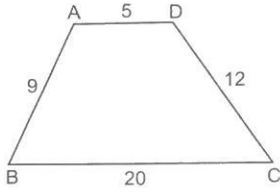
A) 10 B) 9 C) 8 D) 7 E) 6

Cevap Anahtarı – Answer Sheet

1.B	2.D	3.A	4.C	5.C	6.E
7.C	8.A	9.B	10.D	11.E	12.B



1.

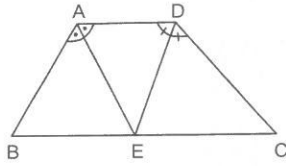


$[AD] // [BC]$
 $|AD| = 5 \text{ cm}$
 $|AB| = 9 \text{ cm}$
 $|DC| = 12 \text{ cm}$
 $|BC| = 20 \text{ cm}$

$s(ABCD) = ? \text{ cm}^2$

- A) 80 B) 90 C) 100 D) 110 E) 120

2.

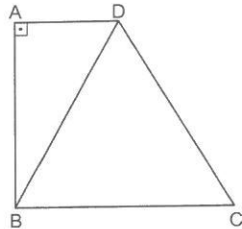


$[AD] // [BC]$
 $m(\widehat{BAE}) = m(\widehat{DAE})$
 $m(\widehat{ADE}) = m(\widehat{CDE})$
 $|BC| = 14 \text{ cm}$
 $|AD| = 6 \text{ cm}$

$\zeta(ABCD) = ? \text{ cm}$

- A) 28 B) 30 C) 32 D) 34 E) 36

3.

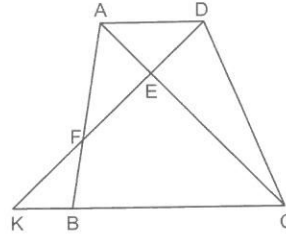


$[AD] // [BC]$
 $[BA] \perp [AD]$
 $|DC| = |BC| = 10 \text{ cm}$
 $s(\triangle BDC) = 30 \text{ cm}^2$

$s(ABCD) = ? \text{ cm}^2$

- A) 30 B) 32 C) 36 D) 40 E) 42

4.

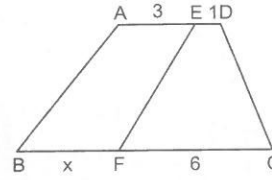


$[AD] // [BC]$
 $|AD| = 3 \text{ cm}$
 $|ED| = 2 \text{ cm}$
 $|EF| = 4 \text{ cm}$
 $|KF| = 12 \text{ cm}$
 $|BC| = x \text{ cm}$

$x = ?$

- A) 18 B) 20 C) 22 D) 24 E) 26

5.

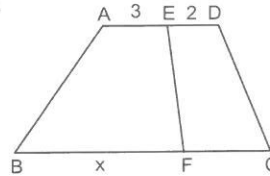


$[AD] // [BC]$
 $s(BAEF) = s(EFCD)$
 $|AE| = 7 \text{ cm}$
 $|ED| = 1 \text{ cm}$
 $|FC| = 6 \text{ cm}$
 $|BF| = x \text{ cm}$

$x = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

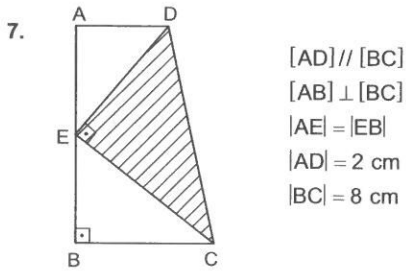
6.



$[AD] // [BC]$
 $s(ABFE) = 2 \cdot s(EFCD)$
 $|AE| = 3 \text{ cm}$
 $|ED| = 2 \text{ cm}$
 $|BC| = 10 \text{ cm}$
 $|BF| = x \text{ cm}$

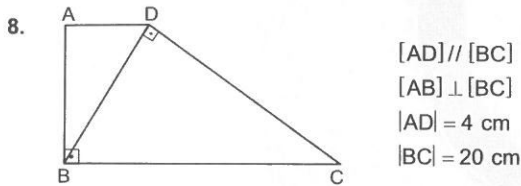
$x = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7



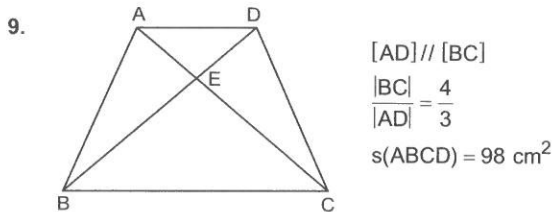
$$s(\triangle EDC) = ? \text{ cm}^2$$

- A) 20 B) $10\sqrt{3}$ C) $8\sqrt{3}$ D) 10 E) $5\sqrt{3}$



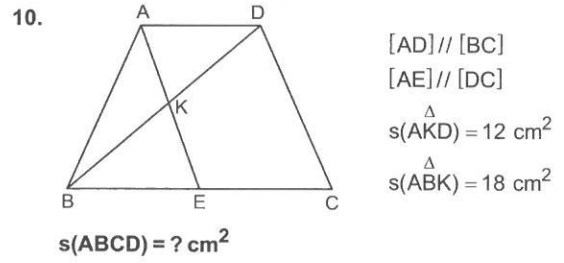
$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) 120 B) 108 C) 96 D) 84 E) 72

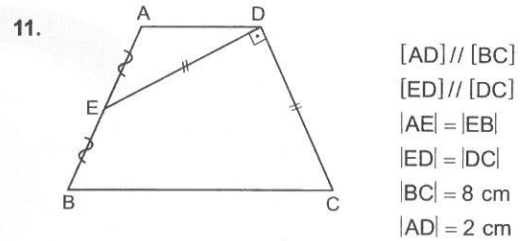


$$s(\triangle AED) = ? \text{ cm}^2$$

- A) 16 B) 18 C) 20 D) 22 E) 24

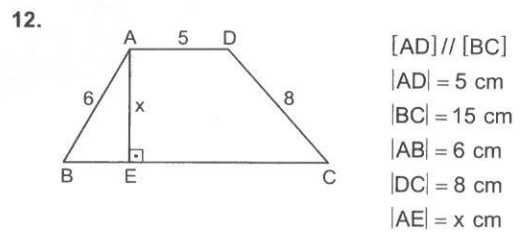


- A) 90 B) 95 C) 100 D) 105 E) 110



$$s(\triangle BCD) = ? \text{ cm}^2$$

- A) 36 B) 32 C) 28 D) 24 E) 20



$$x = ?$$

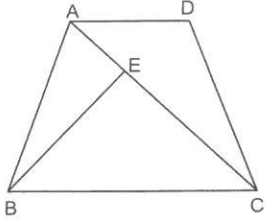
- A) 3,6 B) 3,4 C) 4,4 D) 4,8 E) 5,6

Cevap Anahtarı – Answer Sheet

1.B	2.D	3.C	4.A	5.B	6.E
7.A	8.C	9.B	10.D	11.E	12.D



1.

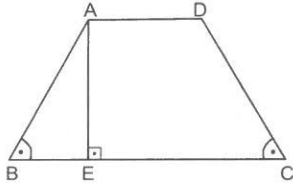


$$\begin{aligned} [AD] // [BC] \\ \frac{|AD|}{|BC|} &= \frac{3}{4} \\ \frac{|AE|}{|EC|} &= \frac{1}{3} \end{aligned}$$

$$\frac{s(\triangle BEC)}{s(ABCD)} = ?$$

- A) $\frac{3}{5}$ B) $\frac{1}{2}$ C) $\frac{3}{7}$ D) $\frac{4}{5}$ E) $\frac{2}{3}$

2.

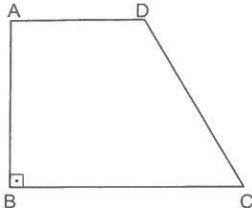


$$\begin{aligned} [AD] // [BC] \\ m(\angle ABC) &= m(\angle DCB) \\ |AD| &= 4 \cdot |BE| \\ |BE| &= |AE| \\ s(ABCD) &= 125 \text{ cm}^2 \\ |BC| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

- A) 48 B) 42 C) 36 D) 30 E) 24

3.

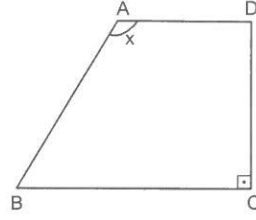


$$\begin{aligned} [AD] // [BC] \\ |AD| &= x \text{ cm} \\ |AB| &= 2x \text{ cm} \\ |DC| &= \sqrt{5} x \text{ cm} \\ s(ABCD) &= kx^2 \text{ cm}^2 \end{aligned}$$

$$k = ?$$

- A) 2 B) 3 C) 4 D) 5 E) 6

4.

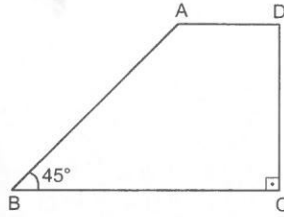


$$\begin{aligned} [AD] // [BC] \\ [DC] \perp [BC] \\ |AD| &= 6 \text{ cm} \\ |BC| &= 8 \text{ cm} \\ |AB| &= 4 \text{ cm} \\ m(\angle BAD) &= x \end{aligned}$$

$$x = ?$$

- A) 150 B) 135 C) 120 D) 105 E) 90

5.

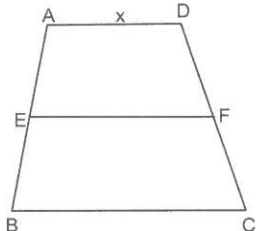


$$\begin{aligned} [AD] // [BC] \\ [DC] \perp [BC] \\ m(\angle ABC) &= 45^\circ \\ |AD| &= 6\sqrt{2} \text{ cm} \\ |BC| &= 10\sqrt{2} \text{ cm} \end{aligned}$$

$$s(ABCD) = ? \text{ cm}^2$$

- A) 64 B) 56 C) 48 D) 40 E) 32

6.



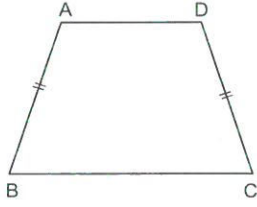
$$\begin{aligned} [AD] // [EF] // [BC] \\ |DF| &= 3 \text{ cm} \\ |FC| &= 5 \text{ cm} \\ |EF| &= 10 \text{ cm} \\ |BC| &= 20 \text{ cm} \\ |AD| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

- A) 8 B) 7 C) 6 D) 5 E) 4



7.

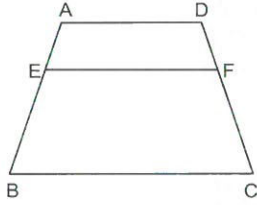


$[AD] \parallel [BC]$
 $|AD| = 3 \text{ cm}$
 $|BC| = 10 \text{ cm}$
 $|AB| = |DC| = 7 \text{ cm}$

 $s(ABCD) = ? \text{ cm}^2$

- A) $\frac{87\sqrt{3}}{4}$ B) $\frac{91\sqrt{3}}{4}$ C) $\frac{93\sqrt{3}}{4}$
D) $\frac{95\sqrt{3}}{4}$ E) $\frac{97\sqrt{3}}{4}$

8.

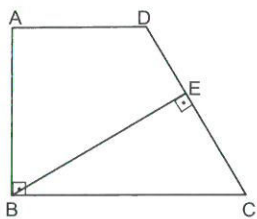


$[AD] \parallel [EF] \parallel [BC]$
 $\frac{|AE|}{|EB|} = \frac{1}{2}$
 $|AD| = 8 \text{ cm}$
 $|BC| = 14 \text{ cm}$

 $\frac{s(ADFE)}{s(EBCF)} = ?$

- A) $\frac{5}{8}$ B) $\frac{4}{9}$ C) $\frac{2}{9}$ D) $\frac{3}{7}$ E) $\frac{3}{8}$

9.

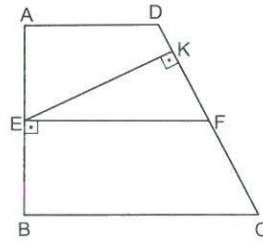


$[AD] \parallel [BC]$
 $[AB] \perp [BC]$
 $[BE] \perp [DC]$
 $|AD| = |DE| = 4 \text{ cm}$
 $|EC| = 6 \text{ cm}$

 $s(ABCD) = ? \text{ cm}^2$

- A) 48 B) 56 C) 64 D) 70 E) 76

10.

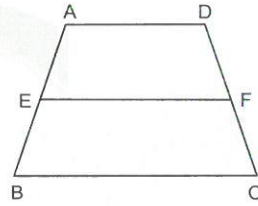


$[AD] \parallel [EF] \parallel [BC]$
 $|EK| = 6 \text{ cm}$
 $|EF| = 10 \text{ cm}$
 $|DK| = 2 \text{ cm}$
 $|AE| = |EB|$
 $|AB| = x \text{ cm}$

 $x = ?$

- A) 24 B) 20 C) 18 D) 16 E) 12

11.

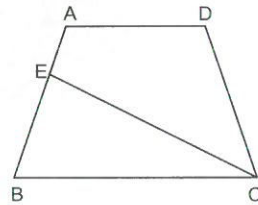


$[AD] \parallel [EF] \parallel [BC]$
 $s(ADFE) = s(EFCB)$
 $|AD| = 6 \text{ cm}$
 $|BC| = 8 \text{ cm}$
 $|EF| = x \text{ cm}$

 $x = ?$

- A) $3\sqrt{3}$ B) $4\sqrt{2}$ C) $5\sqrt{2}$
D) $5\sqrt{3}$ E) $6\sqrt{2}$

12.



$[AD] \parallel [BC]$
 $|AD| = 4 \text{ cm}$
 $|BC| = 12 \text{ cm}$
 $s(\triangle EBC) = s(\triangle AECD)$

 $\frac{|AE|}{|EB|} = ?$

- A) $\frac{1}{2}$ B) $\frac{1}{3}$ C) $\frac{2}{3}$ D) $\frac{3}{4}$ E) $\frac{3}{5}$

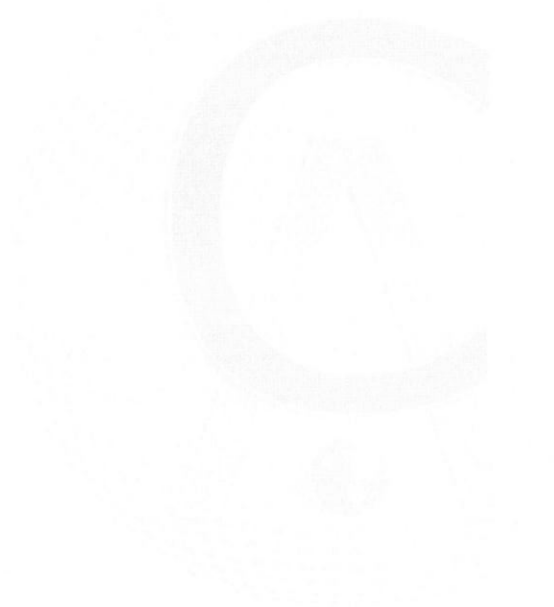
Cevap Anahtarı – Answer Sheet

1.C	2.D	3.B	4.C	5.A	6.E
7.B	8.E	9.B	10.E	11.C	12.C

16. BÖLÜM

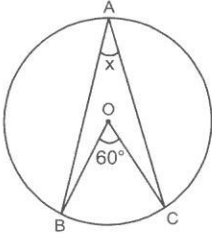
ÇEMBERDE AÇI







1.

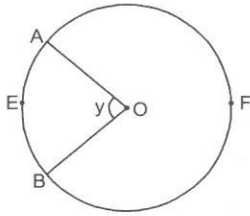


$$m(\widehat{BOC}) = 60^\circ$$
$$m(\widehat{BAC}) = x$$

$x = ?$

- A) 15 B) 30 C) 45 D) 60 E) 75

2.

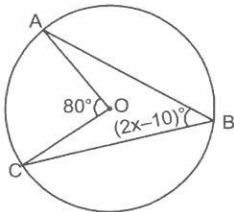


$$m(\widehat{AEB}) = (x + 20)^\circ$$
$$m(\widehat{AFB}) = (4x - 40)^\circ$$
$$m(\widehat{AOB}) = y$$

$y = ?$

- A) 48 B) 64 C) 80 D) 96 E) 108

3.

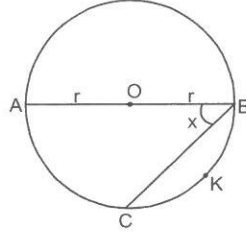


$$m(\widehat{AOC}) = 80^\circ$$
$$m(\widehat{ABC}) = (2x - 10)^\circ$$

$x = ?$

- A) 15 B) 20 C) 25 D) 30 E) 35

4.

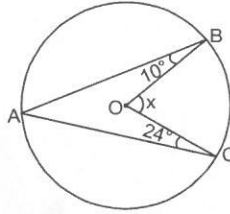


$$m(\widehat{BKC}) = 110^\circ$$
$$m(\widehat{ABC}) = x$$

$x = ?$

- A) 20 B) 25 C) 30 D) 35 E) 40

5.

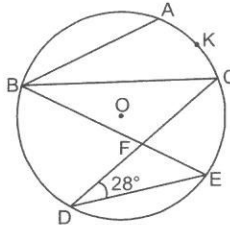


$$m(\widehat{ABO}) = 10^\circ$$
$$m(\widehat{ACO}) = 24^\circ$$
$$m(\widehat{BOC}) = x$$

$x = ?$

- A) 68 B) 70 C) 72 D) 74 E) 76

6.



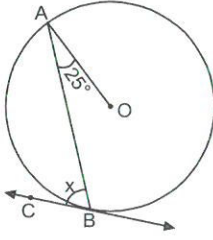
$$m(\widehat{CDE}) = 28^\circ$$
$$m(\widehat{ABE}) = 52^\circ$$
$$m(\widehat{AKC}) = x$$

$x = ?$

- A) 16 B) 24 C) 32 D) 40 E) 48



7.

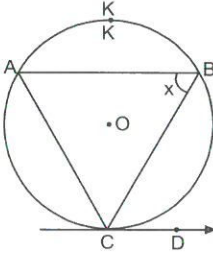


$$m(\widehat{OAB}) = 25^\circ$$
$$m(\widehat{ABC}) = x$$

 $x = ?$

- A) 80 B) 75 C) 70 D) 65 E) 60

8.

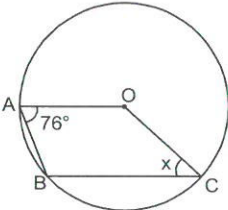


$$m(\widehat{AKB}) = 100^\circ$$
$$m(\widehat{BCD}) = 75^\circ$$
$$m(\widehat{ABC}) = x$$

 $x = ?$

- A) 50 B) 55 C) 60 D) 65 E) 70

9.

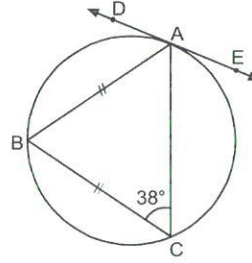


$$[OA] \parallel [BC]$$
$$m(\widehat{OAB}) = 76^\circ$$
$$m(\widehat{OCB}) = x$$

 $x = ?$

- A) 38 B) 35 C) 32 D) 30 E) 28

10.

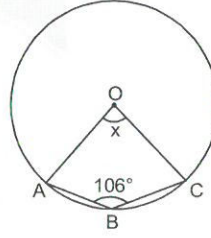


$$|AB| = |BC|$$
$$m(\widehat{ACB}) = 38^\circ$$
$$m(\widehat{EAC}) = x$$

 $x = ?$

- A) 104 B) 102 C) 100 D) 98 E) 96

11.

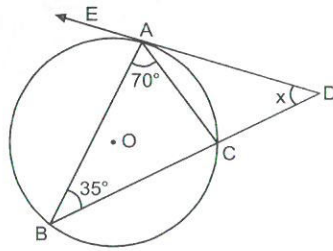


$$m(\widehat{ABC}) = 106^\circ$$
$$m(\widehat{AOC}) = x$$

 $x = ?$

- A) 156 B) 152 C) 148 D) 144 E) 140

12.



$$m(\widehat{ABD}) = 35^\circ$$
$$m(\widehat{BAC}) = 70^\circ$$
$$m(\widehat{ADB}) = x$$

 $x = ?$

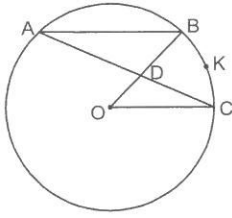
- A) 45 B) 40 C) 35 D) 30 E) 25

Cevap Anahtarı – Answer Sheet

1.B	2.D	3.C	4.D	5.A	6.E
7.D	8.B	9.E	10.A	11.C	12.B



1.

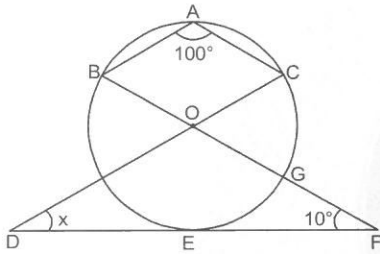


$$\begin{aligned} [AB] // [OC] \\ |AB| = |AD| \\ m(\widehat{BKC}) = x \end{aligned}$$

$x = ?$

- A) 44 B) 42 C) 40 D) 38 E) 36

2.

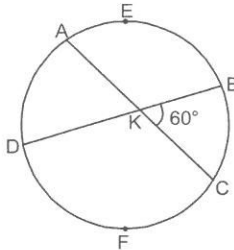


$$\begin{aligned} m(\widehat{BAC}) &= 100^\circ \\ m(\widehat{OFD}) &= 10^\circ \\ m(\widehat{FDC}) &= x \end{aligned}$$

$x = ?$

- A) 5 B) 10 C) 15 D) 20 E) 25

3.

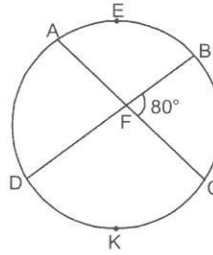


$$\begin{aligned} m(\widehat{AEB}) &= (2x + 50)^\circ \\ m(\widehat{DFC}) &= (x + 40)^\circ \\ m(\widehat{BKC}) &= 60^\circ \end{aligned}$$

$x = ?$

- A) 40 B) 45 C) 50 D) 55 E) 60

4.

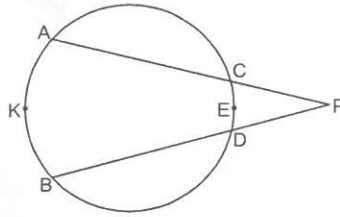


$$\begin{aligned} m(\widehat{DKC}) &= 130^\circ \\ m(\widehat{BFC}) &= 80^\circ \\ m(\widehat{AEB}) &= x \end{aligned}$$

$x = ?$

- A) 70 B) 75 C) 80 D) 85 E) 90

5.

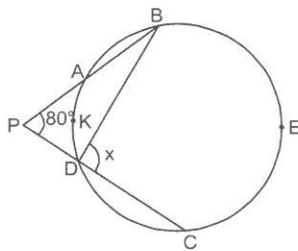


$$\begin{aligned} m(\widehat{AKB}) &= 154^\circ \\ m(\widehat{CED}) &= 68^\circ \\ m(\widehat{APB}) &= x \end{aligned}$$

$x = ?$

- A) 46 B) 45 C) 44 D) 43 E) 42

6.



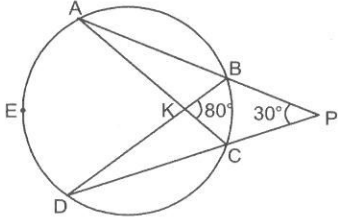
$$\begin{aligned} m(\widehat{BPC}) &= 80^\circ \\ m(\widehat{AKD}) &= 30^\circ \\ m(\widehat{BDC}) &= x \end{aligned}$$

$x = ?$

- A) 90 B) 95 C) 100 D) 105 E) 110



7.

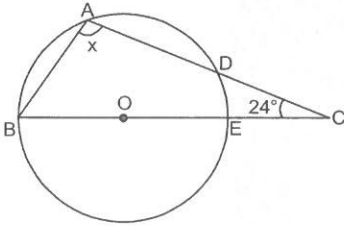


$$\begin{aligned} m(\widehat{APD}) &= 30^\circ \\ m(\widehat{BKC}) &= 80^\circ \\ m(\widehat{AED}) &= x \end{aligned}$$

$$x = ?$$

- A) 120 B) 115 C) 110 D) 105 E) 100

8.

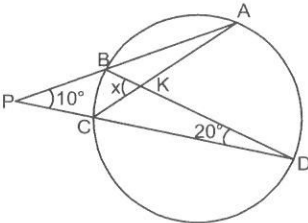


$$\begin{aligned} |AB| &= |AD| \\ m(\widehat{ACB}) &= 24^\circ \\ m(\widehat{BAC}) &= x \end{aligned}$$

$$x = ?$$

- A) 102 B) 104 C) 106 D) 108 E) 110

9.

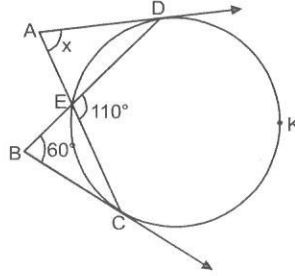


$$\begin{aligned} m(\widehat{APD}) &= 10^\circ \\ m(\widehat{BDP}) &= 20^\circ \\ m(\widehat{BKC}) &= x \end{aligned}$$

$$x = ?$$

- A) 65 B) 60 C) 55 D) 50 E) 45

10.

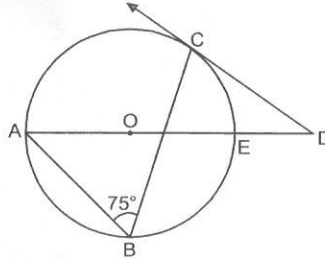


$$\begin{aligned} m(\widehat{DEC}) &= 110^\circ \\ m(\widehat{EBC}) &= 60^\circ \\ m(\widehat{DAC}) &= x \end{aligned}$$

$$x = ?$$

- A) 70 B) 75 C) 80 D) 85 E) 90

11.

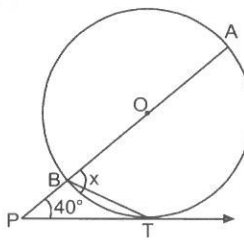


$$\begin{aligned} m(\widehat{ABC}) &= 75^\circ \\ m(\widehat{CDA}) &= x \end{aligned}$$

$$x = ?$$

- A) 60 B) 65 C) 70 D) 75 E) 80

12.



$$\begin{aligned} m(\widehat{APT}) &= 40^\circ \\ m(\widehat{ABT}) &= x \end{aligned}$$

$$x = ?$$

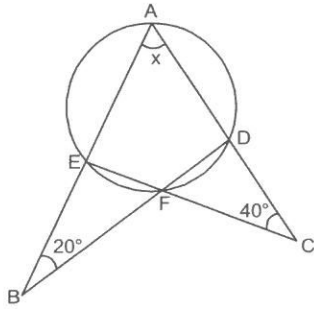
- A) 65 B) 70 C) 75 D) 80 E) 85

Cevap Anahtarı – Answer Sheet

1.E	2.B	3.C	4.A	5.D	6.B
7.C	8.B	9.D	10.E	11.A	12.A



1.

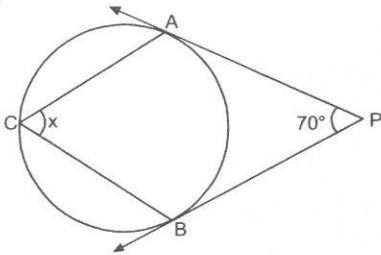


$$\begin{aligned} m(\widehat{ABD}) &= 20^\circ \\ m(\widehat{ACE}) &= 40^\circ \\ m(\widehat{BAC}) &= x \end{aligned}$$

$x = ?$

- A) 40 B) 50 C) 60 D) 70 E) 80

2.

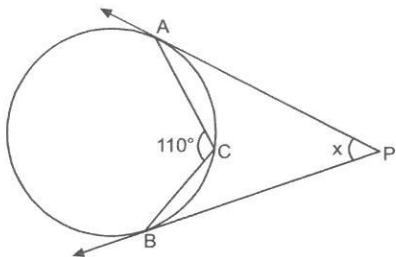


$$\begin{aligned} m(\widehat{APB}) &= 70^\circ \\ m(\widehat{ACB}) &= x \end{aligned}$$

$x = ?$

- A) 70 B) 65 C) 60 D) 55 E) 50

3.

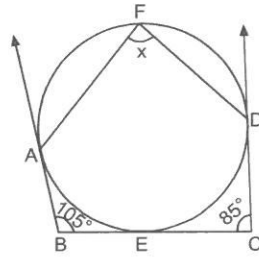


$$\begin{aligned} m(\widehat{ACB}) &= 110^\circ \\ m(\widehat{APB}) &= x \end{aligned}$$

$x = ?$

- A) 60 B) 55 C) 50 D) 45 E) 40

4.

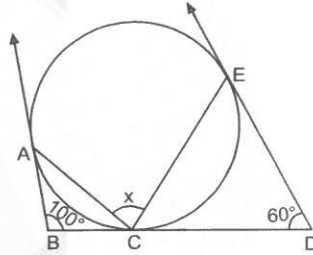


$$\begin{aligned} m(\widehat{ABC}) &= 105 \\ m(\widehat{DCB}) &= 85^\circ \\ m(\widehat{AFD}) &= x \end{aligned}$$

$x = ?$

- A) 95 B) 90 C) 85 D) 80 E) 75

5.

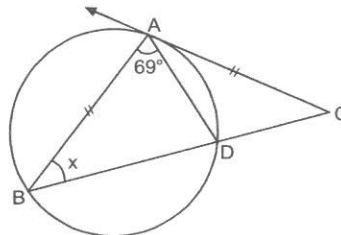


$$\begin{aligned} m(\widehat{ABC}) &= 100^\circ \\ m(\widehat{EDC}) &= 60^\circ \\ m(\widehat{ACE}) &= x \end{aligned}$$

$x = ?$

- A) 75 B) 80 C) 85 D) 90 E) 95

6.



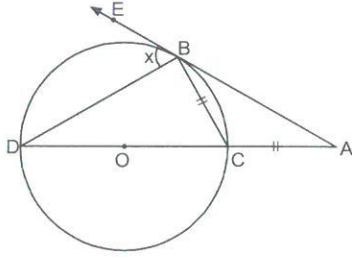
$$\begin{aligned} m(\widehat{BAD}) &= 69^\circ \\ m(\widehat{ABD}) &= x \end{aligned}$$

$x = ?$

- A) 36 B) 37 C) 38 D) 39 E) 40



7.

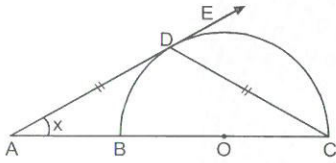


$$|BC| = |CA|$$
$$m(\widehat{EBD}) = x$$

x = ?

- A) 70 B) 60 C) 50 D) 40 E) 30

8.

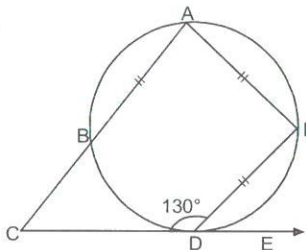


$$|AD| = |DC|$$
$$m(\widehat{CAD}) = x$$

x = ?

- A) 75 B) 60 C) 45 D) 30 E) 15

9.

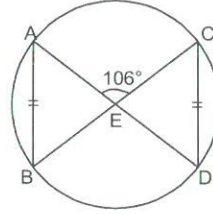


$$|AB| = |AF| = |FD|$$
$$m(\widehat{CDF}) = 130^\circ$$
$$m(\widehat{ACE}) = x$$

x = ?

- A) 6 B) 65 C) 70 D) 75 E) 80

10.

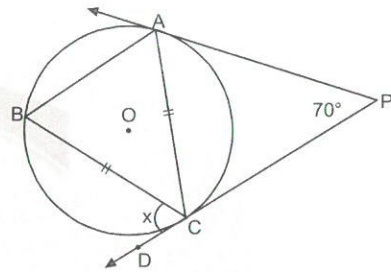


$$|AB| = |CD|$$
$$m(\widehat{AEC}) = 106^\circ$$
$$m(\widehat{ABC}) = x$$

x = ?

- A) 53 B) 47 C) 46 D) 41 E) 37

11.

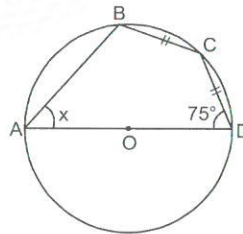


$$m(\widehat{APC}) = 70^\circ$$
$$m(\widehat{BCD}) = x$$

x = ?

- A) 75 B) 70 C) 65 D) 60 E) 55

12.



$$|BC| = |CD|$$
$$m(\widehat{CDA}) = 75^\circ$$
$$m(\widehat{BAD}) = x$$

x = ?

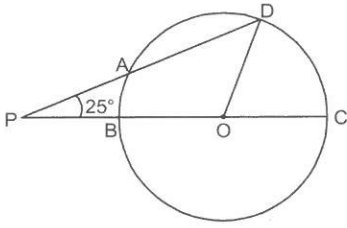
- A) 20 B) 25 C) 30 D) 35 E) 40

Cevap Anahtarı – Answer Sheet

1.C	2.D	3.E	4.C	5.B	6.B
7.B	8.D	9.C	10.A	11.E	12.C



1.

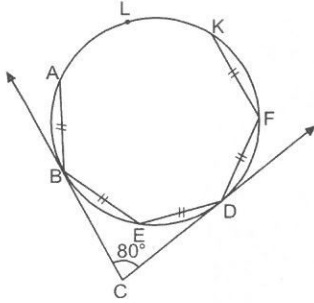


$$\begin{aligned} m(\widehat{DPC}) &= 25^\circ \\ |PA| &= |OC| = r \\ m(\widehat{BOD}) &= x \end{aligned}$$

$$x = ?$$

- A) 125 B) 120 C) 115 D) 110 E) 105

2.

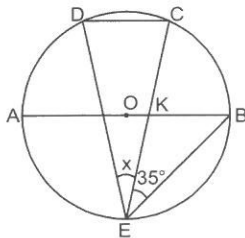


$$\begin{aligned} |AB| &= |BE| = |ED| = |DF| = |FK| \\ m(\widehat{BCD}) &= 80^\circ \\ m(\widehat{ALK}) &= x \end{aligned}$$

$$x = ?$$

- A) 105 B) 110 C) 115 D) 120 E) 125

3.

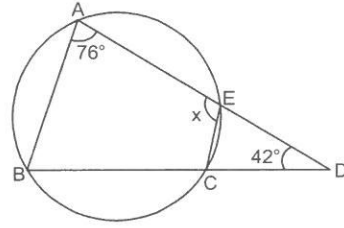


$$\begin{aligned} [DC] &\parallel [AB] \\ m(\widehat{CEB}) &= 35^\circ \\ m(\widehat{DEC}) &= x \end{aligned}$$

$$x = ?$$

- A) 35 B) 30 C) 25 D) 20 E) 15

4.

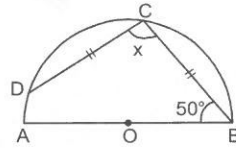


$$\begin{aligned} m(\widehat{BAD}) &= 76^\circ \\ m(\widehat{ADB}) &= 42^\circ \\ m(\widehat{AEC}) &= x \end{aligned}$$

$$x = ?$$

- A) 114 B) 116 C) 118 D) 120 E) 122

5.

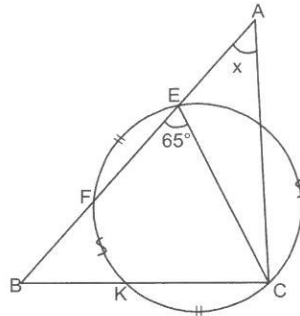


$$\begin{aligned} |CD| &= |CB| \\ m(\widehat{CBA}) &= 50^\circ \\ m(\widehat{DCB}) &= x \end{aligned}$$

$$x = ?$$

- A) 90 B) 95 C) 100 D) 105 E) 110

6.



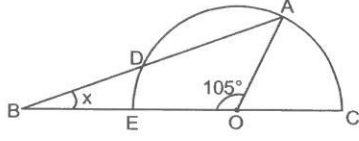
$$\begin{aligned} m(\widehat{BEC}) &= 65^\circ \\ m(\widehat{EF}) &= m(\widehat{KC}) \\ m(\widehat{FK}) &= m(\widehat{DC}) \\ m(\widehat{BAC}) &= x \end{aligned}$$

$$x = ?$$

- A) 15 B) 18 C) 20 D) 24 E) 30



7.



$$|BD| = |OA| = r$$

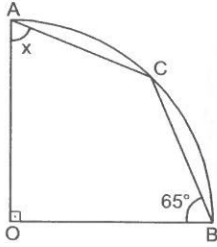
$$m(\widehat{BOA}) = 105^\circ$$

$$m(\widehat{ABC}) = x$$

$$x = ?$$

- A) 20 B) 25 C) 30 D) 35 E) 40

8.



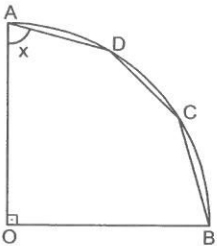
$$m(\widehat{CBO}) = 65^\circ$$

$$m(\widehat{CAO}) = x$$

$$x = ?$$

- A) 60 B) 65 C) 70 D) 75 E) 80

9.



$$m(\widehat{AOB}) = 90^\circ$$

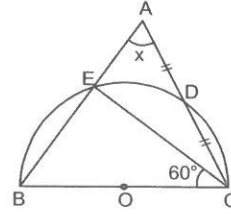
$$|AD| = |DC| = |CB|$$

$$m(\widehat{DAO}) = x$$

$$x = ?$$

- A) 90 B) 85 C) 80 D) 75 E) 70

10.



$$|AD| = |DC|$$

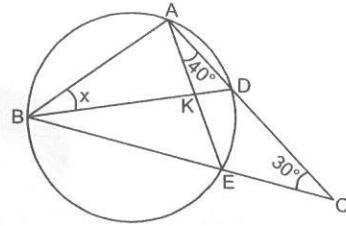
$$m(\widehat{ECB}) = 60^\circ$$

$$m(\widehat{BAC}) = x$$

$$x = ?$$

- A) 75 B) 70 C) 65 D) 60 E) 55

11.



$$m(\widehat{EAC}) = 40^\circ$$

$$m(\widehat{ACB}) = 30^\circ$$

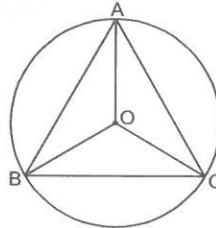
$$m(\widehat{BED}) = 200^\circ$$

$$m(\widehat{ABD}) = x$$

$$x = ?$$

- A) 5 B) 10 C) 15 D) 20 E) 25

12.



$$m(\widehat{OAC}) = 20^\circ$$

$$m(\widehat{ABC}) = x$$

$$x = ?$$

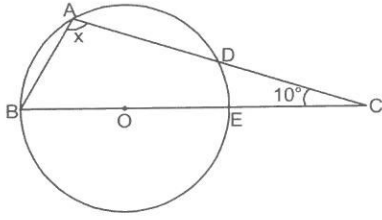
- A) 90 B) 85 C) 80 D) 75 E) 70

Cevap Anahtarı – Answer Sheet

1.E	2.B	3.D	4.C	5.C	6.A
7.B	8.C	9.D	10.A	11.B	12.E



1.



$$|BE| = 2|AD|$$

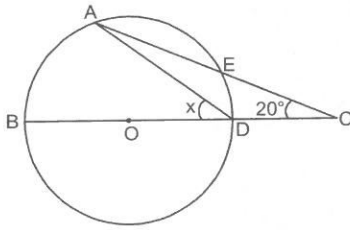
$$m(\widehat{ACB}) = 10^\circ$$

$$m(\widehat{BAC}) = x$$

$x = ?$

- A) 130 B) 125 C) 120 D) 115 E) 110

2.



$$|AE| = |BO|$$

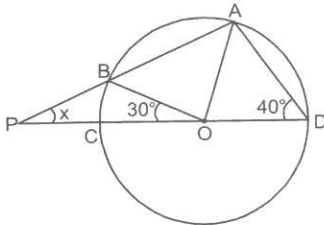
$$m(\widehat{ACB}) = 20^\circ$$

$$m(\widehat{ADB}) = x$$

$x = ?$

- A) 30 B) 35 C) 40 D) 45 E) 50

3.



$$m(\widehat{PDA}) = 40^\circ$$

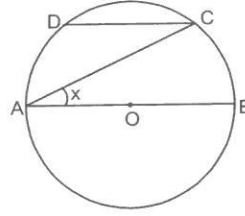
$$m(\widehat{BOP}) = 30^\circ$$

$$m(\widehat{APD}) = x$$

$x = ?$

- A) 35 B) 40 C) 45 D) 50 E) 55

4.



$$[DC] \parallel [AB]$$

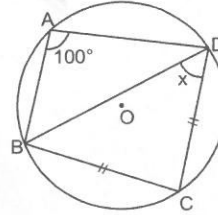
$$|OB| = |DC|$$

$$m(\widehat{CAB}) = x$$

$x = ?$

- A) 75 B) 60 C) 45 D) 30 E) 15

5.



$$|CD| = |CB|$$

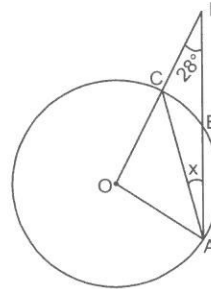
$$m(\widehat{BAD}) = 100^\circ$$

$$m(\widehat{BDC}) = x$$

$x = ?$

- A) 50 B) 45 C) 40 D) 35 E) 30

6.



$$|OA| = |AB| = r$$

$$m(\widehat{OPA}) = 28^\circ$$

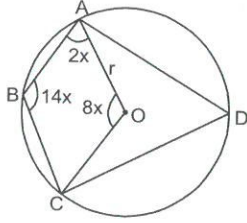
$$m(\widehat{CAP}) = x$$

$x = ?$

- A) 234 B) 22 C) 20 D) 18 E) 16



7.

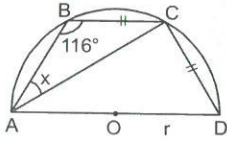


$$\begin{aligned} m(\widehat{ABC}) &= (14x)^\circ \\ m(\widehat{AOC}) &= (8x)^\circ \\ m(\widehat{BAO}) &= ? \end{aligned}$$

$x = ?$

- A) 10 B) 15 C) 20 D) 25 E) 30

8.

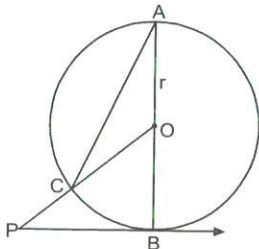


$$\begin{aligned} |BC| &= |CD| \\ m(\widehat{ABC}) &= 116^\circ \\ m(\widehat{BAC}) &= x \end{aligned}$$

$x = ?$

- A) 32 B) 30 C) 28 D) 26 E) 24

9.

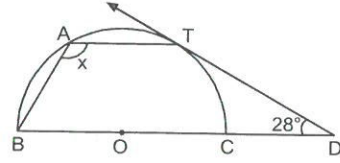


$$\begin{aligned} m(\widehat{CAO}) &= 26^\circ \\ m(\widehat{OPB}) &= x \end{aligned}$$

$x = ?$

- A) 36 B) 38 C) 40 D) 42 E) 44

10.

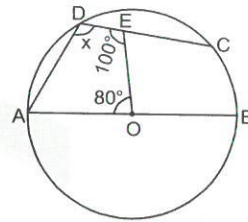


$$\begin{aligned} m(\widehat{TDB}) &= 28^\circ \\ m(\widehat{BAT}) &= x \end{aligned}$$

$x = ?$

- A) 125 B) 124 C) 123 D) 122 E) 121

11.

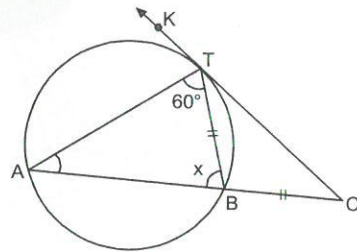


$$\begin{aligned} |EC| &= |AO| \\ m(\widehat{DEO}) &= 100^\circ \\ m(\widehat{EOA}) &= 80^\circ \\ m(\widehat{ADC}) &= x \end{aligned}$$

$x = ?$

- A) 100 B) 98 C) 96 D) 94 E) 92

12.



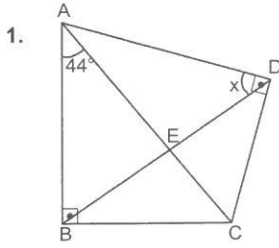
$$\begin{aligned} m(\widehat{ATB}) &= 60^\circ \\ |TB| &= |BC| \\ m(\widehat{TBA}) &= x \end{aligned}$$

$x = ?$

- A) 40 B) 50 C) 60 D) 70 E) 80

Cevap Anahtarı – Answer Sheet

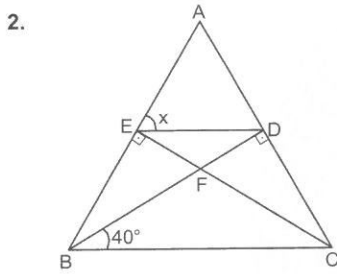
1.D	2.C	3.A	4.D	5.A	6.E
7.C	8.D	9.B	10.E	11.A	12.E



$[AD] \perp [DC]$
 $[AB] \perp [BC]$
 $m(\widehat{BAC}) = 44^\circ$
 $m(\widehat{ADE}) = x$

$x = ?$

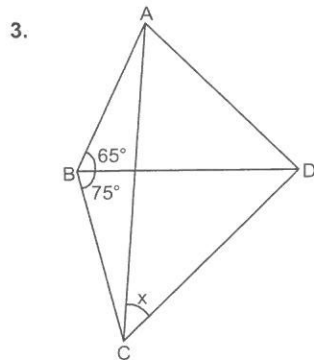
- A) 56 B) 52 C) 48 D) 46 E) 44



$[BD] \perp [AC]$
 $[CE] \perp [AB]$
 $m(\widehat{DBC}) = 40^\circ$
 $m(\widehat{AED}) = x$

$x = ?$

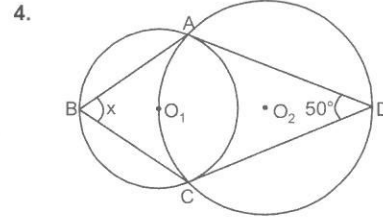
- A) 40 B) 50 C) 60 D) 70 E) 80



$m(\widehat{ABD}) = 65^\circ$
 $m(\widehat{DBC}) = 75^\circ$
 $m(\widehat{ADC}) = 40^\circ$
 $m(\widehat{ACD}) = x$

$x = ?$

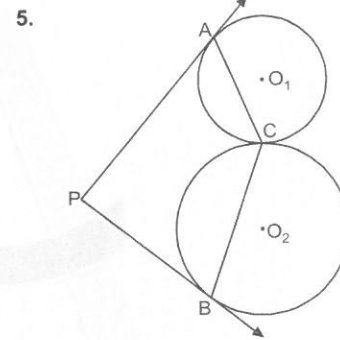
- A) 85 B) 80 C) 75 D) 70 E) 65



$m(\widehat{ADC}) = 50^\circ$
 $m(\widehat{ABC}) = x$

$x = ?$

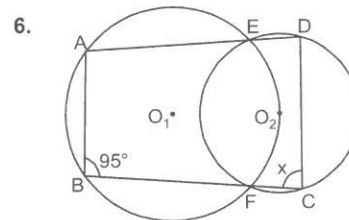
- A) 55 B) 60 C) 65 D) 70 E) 75



$m(\widehat{ACB}) = 155^\circ$
 $m(\widehat{APB}) = x$

$x = ?$

- A) 50 B) 55 C) 60 D) 65 E) 70



$m(\widehat{ABC}) = 95^\circ$
 $m(\widehat{DCB}) = x$

$x = ?$

- A) 95 B) 90 C) 85 D) 80 E) 75

7.

$|CD| = |DE| = |OB| = r$

$m(\widehat{CAD}) = x$

$x = ?$

A) 24 B) 21 C) 18 D) 15 E) 12

8.

$|AB| = |AE|$
 $m(\widehat{ADB}) = 18^\circ$
 $m(\widehat{EBD}) = x$
 $x = ?$

A) 21 B) 18 C) 15 D) 12 E) 9

9.

$m(\widehat{AOD}) = 70^\circ$
 $m(\widehat{BEC}) = x$

$x = ?$

A) 105 B) 110 C) 115 D) 120 E) 125

10. 

$m(\widehat{DCE}) = 50^\circ$
 $m(\widehat{BAE}) = 60^\circ$
 $m(\widehat{AEB}) = x$

$x = ?$

A) 100 B) 90 C) 80 D) 70 E) 60

11.

$m(\widehat{BAD}) = 52^\circ$
 $m(\widehat{DCB}) = x$

$x = ?$

A) 38 B) 40 C) 42 D) 44 E) 46

12.  $m(\widehat{BCD}) = 70^\circ$
 $m(\widehat{TO_1B}) = x^\circ$

$x = ?$

A) 40 B) 50 C) 60 D) 70 E) 80

Cevap Anahtarı – Answer Sheet

1.D	2.B	3.E	4.C	5.A	6.C
7.D	8.B	9.E	10.C	11.A	12.A

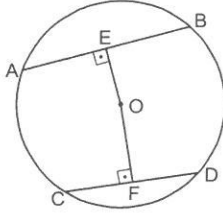
17. BÖLÜM

ÇEMBERDE UZUNLUK





1.

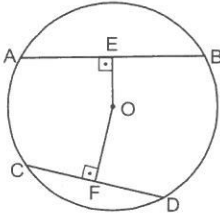


$$\begin{aligned} |OF| &> |OE| \\ |AB| &= (3x + 9) \text{ cm} \\ |CD| &= (5x - 1) \text{ cm} \\ x &\in \mathbb{Z} \end{aligned}$$

$$\max(x) = ?$$

- A) 2 B) 3 C) 4 D) 5 E) 6

2.

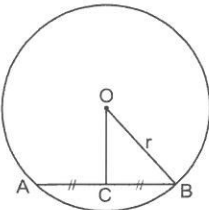


$$\begin{aligned} |AB| &> |CD| \\ |OE| &= (3x) \text{ cm} \\ |OF| &= (2x + 6) \text{ cm} \end{aligned}$$

$$\max(x) = ?$$

- A) 8 B) 7 C) 6 D) 5 E) 4

3.

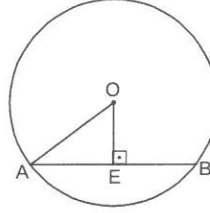


$$\begin{aligned} |OC| &= 12 \text{ cm} \\ |AB| &= 10 \text{ cm} \\ |OB| &= r \text{ cm} \end{aligned}$$

$$r = ?$$

- A) 10 B) 11 C) 12 D) 13 E) 15

4.

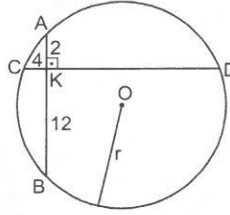


$$\begin{aligned} |AB| &= 8 \text{ cm} \\ |OA| &= 5 \text{ cm} \\ |OE| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

- A) 2 B) 3 C) 4 D) 5 E) 6

5.

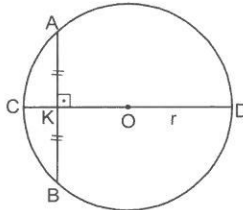


$$\begin{aligned} [CD] &\perp [AB] \\ |AK| &= 2 \text{ cm} \\ |KB| &= 12 \text{ cm} \\ |CK| &= 4 \text{ cm} \end{aligned}$$

$$r = ?$$

- A) $5\sqrt{2}$ B) 5 C) $4\sqrt{2}$ D) 4 E) $3\sqrt{2}$

6.

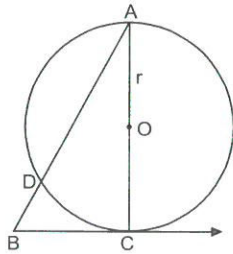


$$\begin{aligned} |AK| &= |KB| = 3 \text{ cm} \\ |CK| &= 1 \text{ cm} \end{aligned}$$

$$r = ?$$

- A) 9 B) 8 C) 7 D) 6 E) 5

7.

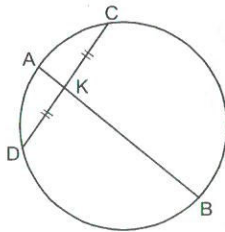


$$|AD| = 4 \text{ cm}$$
$$|BD| = 1 \text{ cm}$$

$r = ?$

- A) 1 B) 2 C) $\sqrt{5}$ D) $2\sqrt{2}$ E) 3

8.

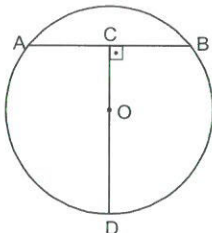


$$\begin{aligned} 2|AK| &= |CK| = |KD| \\ |KB| &= 16 \text{ cm} \\ |CD| &= x \text{ cm} \end{aligned}$$

$x = ?$

- A) 8 B) 10 C) 12 D) 14 E) 16

9.

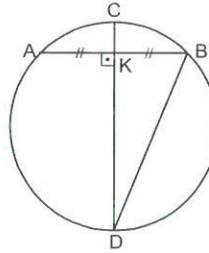


$$\begin{aligned} [DC] &\perp [AB] \\ |OD| &= 17 \text{ cm} \\ |AB| &= 30 \text{ cm} \\ |DC| &= x \text{ cm} \end{aligned}$$

$x = ?$

- A) 20 B) 22 C) 25 D) 27 E) 30

10.

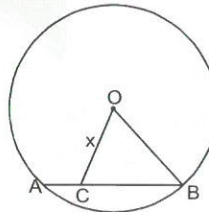


$$\begin{aligned} &[CD] \perp [AB] \\ &|AK| = |KB| \\ &|AB| = 8 \text{ cm} \\ &|CK| = 2 \text{ cm} \\ &|BD| = x \text{ cm} \end{aligned}$$

$x = ?$

- A) $2\sqrt{13}$ B) 8 C) $4\sqrt{2}$ D) $4\sqrt{5}$ E) 10

11.

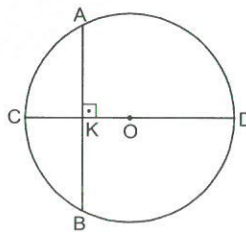


$$\begin{aligned} |OB| &= |CB| = 10 \text{ cm} \\ |AC| &= 6 \text{ cm} \\ |OC| &= x \text{ cm} \end{aligned}$$

$x = ?$

- A) $2\sqrt{10}$ B) $3\sqrt{5}$ C) $4\sqrt{3}$ D) 8 E) $6\sqrt{2}$

12.



$$\begin{aligned} [AB] &\perp [CD] \\ |CD| &= 30 \text{ cm} \\ |OK| &= 9 \text{ cm} \\ |AB| &= x \text{ cm} \end{aligned}$$

$x = ?$

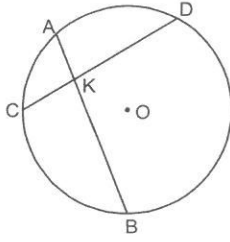
- A) 22 B) 24 C) 26 D) 28 E) 30

Cevap Anahtarı – Answer Sheet

1.C	2.D	3.D	4.B	5.A	6.E
7.C	8.E	9.C	10.D	11.A	12.B



1.

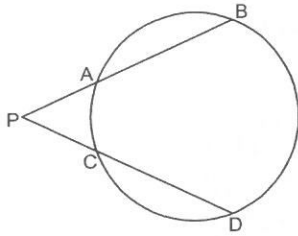


$$\begin{aligned} |AK| &= 3 \text{ cm} \\ |KB| &= 12 \text{ cm} \\ |CK| &= 4 \text{ cm} \\ |CD| &= x \text{ cm} \end{aligned}$$

$x = ?$

- A) 15 B) 13 C) 12 D) 11 E) 9

2.

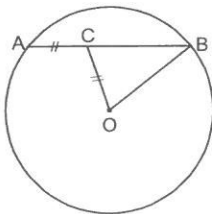


$$\begin{aligned} |PA| &= 6 \text{ cm} \\ |AB| &= 9 \text{ cm} \\ |PC| &= 5 \text{ cm} \\ |CD| &= x \text{ cm} \end{aligned}$$

$x = ?$

- A) 9 B) 10 C) 11 D) 12 E) 13

3.

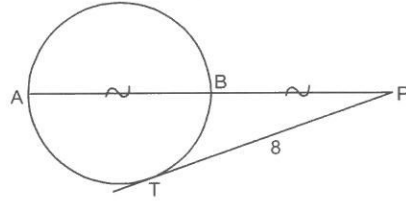


$$\begin{aligned} |OB| &= 6 \text{ cm} \\ |AC| &= |OC| = 4 \text{ cm} \\ |BC| &= x \text{ cm} \end{aligned}$$

$x = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

4.

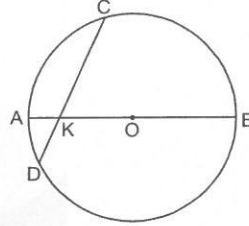


$$\begin{aligned} |PT| &= 8 \text{ cm} \\ |AB| &= |BP| \\ |PA| &= x \text{ cm} \end{aligned}$$

$x = ?$

- A) $8\sqrt{2}$ B) 10 C) $4\sqrt{6}$ D) $4\sqrt{5}$ E) 8

5.

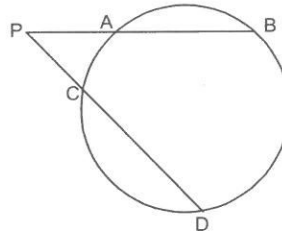


$$\begin{aligned} |OK| &= 9 \text{ cm} \\ |KD| &= 5 \text{ cm} \\ |KC| &= 8 \text{ cm} \\ |AB| &= x \text{ cm} \end{aligned}$$

$x = ?$

- A) 28 B) 26 C) 24 D) 22 E) 20

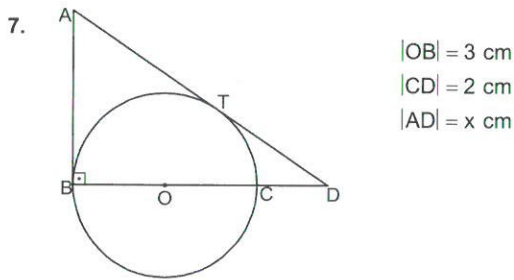
6.



$$\begin{aligned} |AB| &= 3 \text{ m} \\ |PB| &= 9 \text{ cm} \\ |CD| &= 2|PC| \\ |PD| &= x \text{ cm} \end{aligned}$$

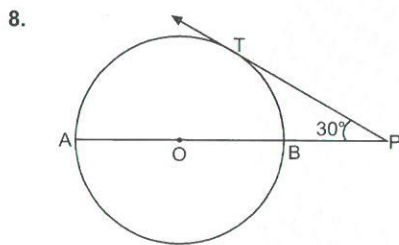
$x = ?$

- A) $9\sqrt{2}$ B) $9\sqrt{3}$ C) 9 D) $6\sqrt{3}$ E) $6\sqrt{2}$



$x = ?$

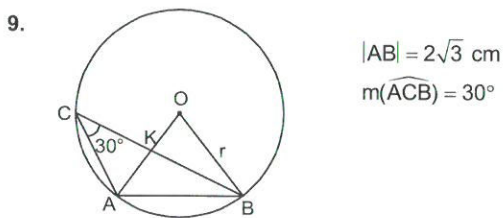
- A) 10 B) 12 C) 13 D) 15 E) 18



$$m(\widehat{APT}) = 30^\circ$$

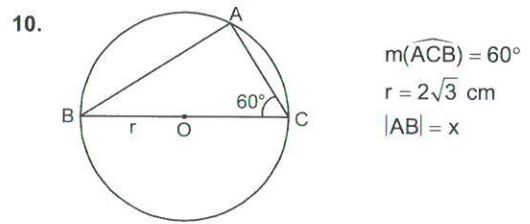
$$\frac{|PB|}{|AB|} = ?$$

- A) $\frac{1}{8}$ B) $\frac{1}{2}$ C) $\frac{2}{3}$ D) $\frac{\sqrt{3}}{2}$ E) $\frac{\sqrt{3}}{3}$



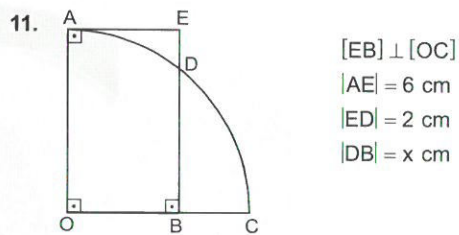
$|OB| = r = ?$

- A) $\sqrt{3}$ B) 2 C) $2\sqrt{3}$ D) 4 E) $2\sqrt{5}$



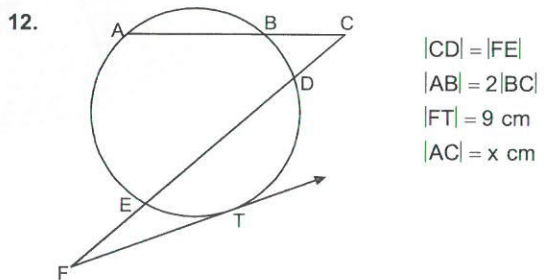
$x = ?$

- A) $2\sqrt{2}$ B) 3 C) $2\sqrt{3}$ D) $3\sqrt{2}$ E) 6



$x = ?$

- A) 16 B) 14 C) 10 D) 8 E) 6



$x = ?$

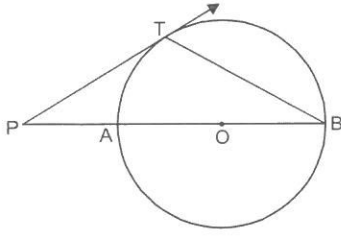
- A) $6\sqrt{3}$ B) $9\sqrt{3}$ C) $6\sqrt{2}$ D) $9\sqrt{2}$ E) 18

Cevap Anahtarı – Answer Sheet

1.B	2.E	3.C	4.A	5.D	6.A
7.A	8.B	9.C	10.E	11.D	12.B



1.



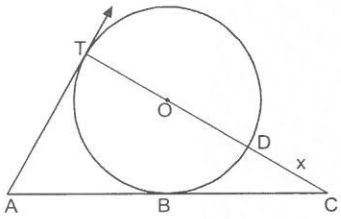
$$|PT| = |TB| = 9\sqrt{3} \text{ cm}$$

$$|PA| = x \text{ cm}$$

$$x = ?$$

- A) 6 B) $6\sqrt{3}$ C) 9 D) $6\sqrt{3}$ E) 12

2.



$$|TO| = |OD| = 5\sqrt{3} \text{ cm}$$

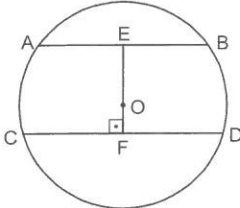
$$|AB| = |BC|$$

$$|CD| = x \text{ cm}$$

$$x = ?$$

- A) 5 B) $5\sqrt{3}$ C) 10 D) $10\sqrt{3}$ E) 15

3.



$$[AB] \parallel [CD]$$

$$[EF] \perp [CD]$$

$$|AB| = 8 \text{ cm}$$

$$|CD| = 12 \text{ cm}$$

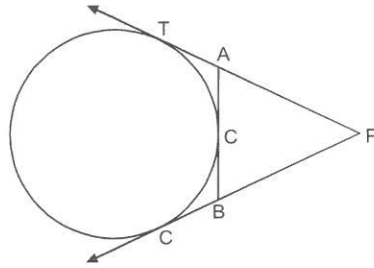
$$|EF| = 6 \text{ cm}$$

$$|OF| = x \text{ cm}$$

$$x = ?$$

- A) $\frac{1}{2}$ B) $\frac{2}{3}$ C) $\frac{3}{4}$ D) $\frac{4}{3}$ E) $\frac{3}{2}$

4.

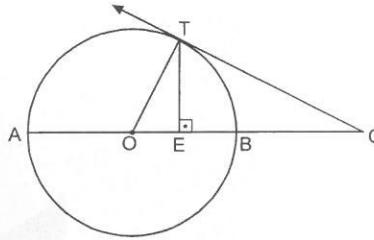


$$|PT| = 8 \text{ cm}$$

$$\angle(ABP) = ? \text{ cm}$$

- A) 8 B) 12 C) 16 D) 20 E) 24

5.



$$[TE] \perp [AC]$$

$$|TC| = 6\sqrt{3} \text{ cm}$$

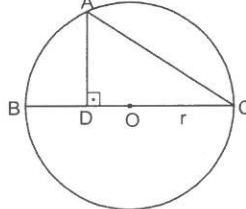
$$|OA| = 6 \text{ cm}$$

$$|BC| = x \text{ cm}$$

$$x = ?$$

- A) 3 B) $3\sqrt{3}$ C) 6 D) $6\sqrt{3}$ E) 12

6.



$$[AD] \perp [BC]$$

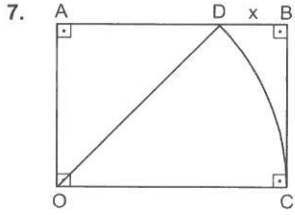
$$|AD| = 6 \text{ cm}$$

$$|BD| = 3 \text{ cm}$$

$$|OC| = r \text{ cm}$$

$$x = ?$$

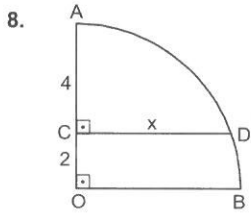
- A) 5,5 B) 6 C) 6,5 D) 7 E) 7,5



$$\begin{aligned} |AO| &= |BC| = 9 \text{ cm} \\ |OC| &= 15 \text{ cm} \\ |DB| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

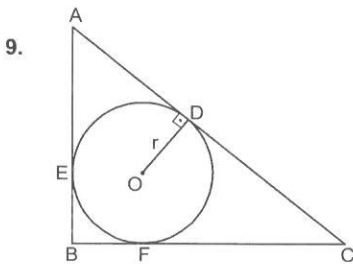
- A) 1 B) 2 C) 3 D) 4 E) 5



$$\begin{aligned} [AC] &\perp [CD] \\ |AC| &= 4 \text{ cm} \\ |DC| &= 2 \text{ cm} \\ |CD| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

- A) $4\sqrt{2}$ B) 4 C) $3\sqrt{2}$ D) 3 E) $2\sqrt{2}$

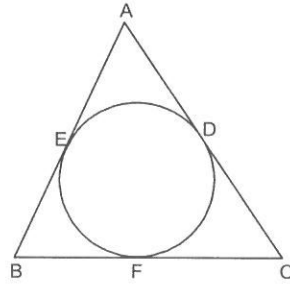


$$\begin{aligned} |AB| &= 8 \text{ cm} \\ |BC| &= 15 \text{ cm} \end{aligned}$$

$$|OD| = r = ?$$

- A) 2 B) 3 C) 4 D) 5 E) 6

10.

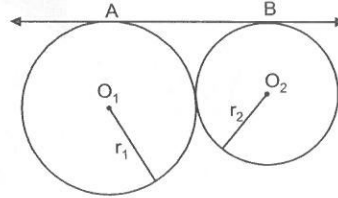


$$\begin{aligned} |AB| &= 6 \text{ cm} \\ |AC| &= 9 \text{ cm} \\ |BC| &= 11 \text{ cm} \\ |DC| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

11.

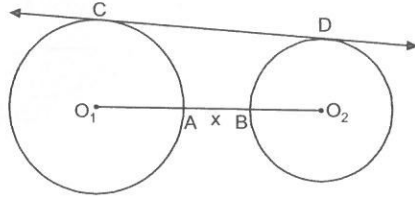


$$\begin{aligned} r_1 + r_2 &= 20 \text{ cm} \\ r_1 - r_2 &= 16 \text{ cm} \\ |AB| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

- A) 12 B) 10 C) 9 D) 8 E) 7

12.



$$\begin{aligned} |O_1A| &= 7 \text{ cm} \\ |O_2B| &= 2 \text{ cm} \\ |CD| &= 12 \text{ cm} \\ |AB| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

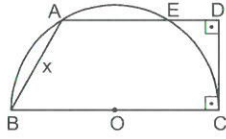
- A) 1 B) 2 C) 3 D) 4 E) 5

Cevap Anahtarı – Answer Sheet

1.C	2.B	3.D	4.C	5.C	6.E
7.C	8.A	9.B	10.E	11.A	12.D



7.

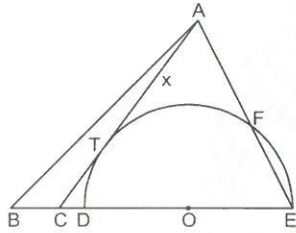


$[AD] \perp [DC]$
 $[BC] \perp [DC]$
 $|AE| = 9 \text{ cm}$
 $|DC| = 6 \text{ cm}$
 $|AB| = x \text{ cm}$

$x = ?$

- A) $3\sqrt{5}$ B) 6 C) $3\sqrt{3}$ D) 5 E) $2\sqrt{6}$

8.

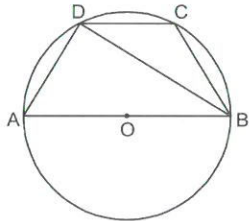


$|AB| = |BE| = |AE| = 25 \text{ cm}$
 $|DC| = r = 9 \text{ cm}$
 $|AT| = x \text{ cm}$

$x = ?$

- A) 12 B) 14 C) 16 D) 18 E) 20

9.

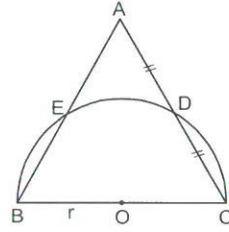


$[DC] \parallel [AB]$
 $|BC| = 5 \text{ cm}$
 $|BD| = 12 \text{ cm}$
 $|AB| = x \text{ cm}$

$x = ?$

- A) 13 B) 15 C) 18 D) 23 E) 26

10.

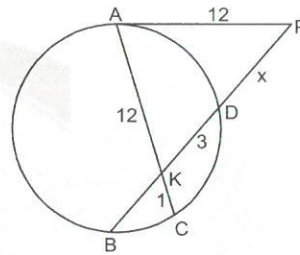


$|AD| = |DC| = 4 \text{ cm}$
 $|AE| = 2 \text{ cm}$
 $|BO| = r \text{ cm}$

$r = ?$

- A) 8 B) 10 C) 12 D) 14 E) 16

11.

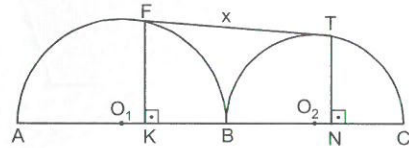


$|AP| = 12 \text{ cm}$
 $|AK| = 12 \text{ cm}$
 $|KD| = 3 \text{ cm}$
 $|KC| = 1 \text{ cm}$
 $|PD| = x \text{ cm}$

$x = ?$

- A) 7 B) 8 C) 9 D) 10 E) 12

12.



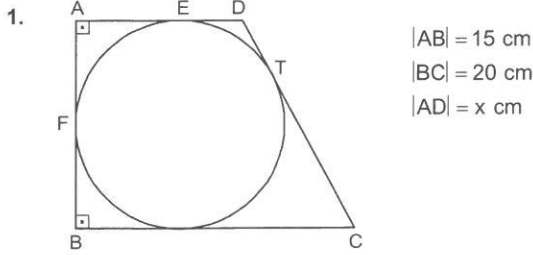
$[FK] \perp [AB]$
 $[TN] \perp [BC]$
 $|FK| = 14 \text{ cm}$
 $|TN| = 8 \text{ cm}$
 $|FT| = x \text{ cm}$

$x = ?$

- A) 26 B) 22 C) 18 D) 14 E) 11

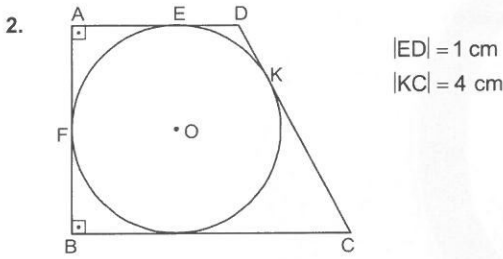
Cevap Anahtarı – Answer Sheet

1.D	2.B	3.C	4.A	5.E	6.C
7.A	8.E	9.A	10.E	11.C	12.B



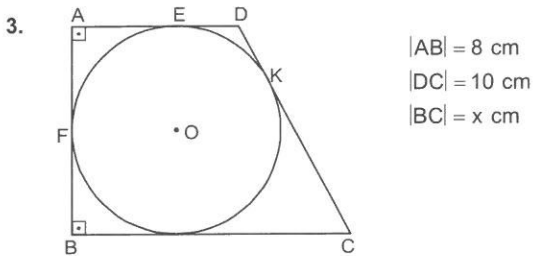
$x = ?$

- A) 10 B) 11 C) 12 D) 13 E) 14



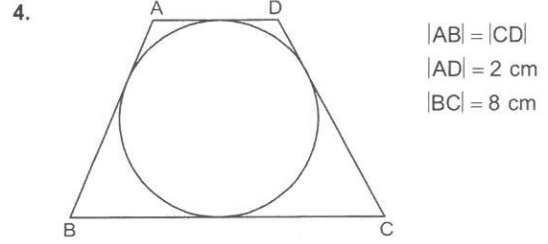
$r = ?$

- A) $\frac{3}{4}$ B) 1 C) $\frac{5}{4}$ D) $\frac{5}{2}$ E) 2



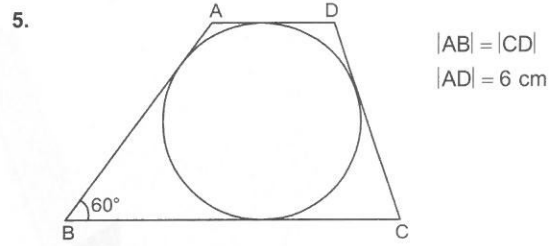
$x = ?$

- A) 18 B) 16 C) 14 D) 12 E) 10



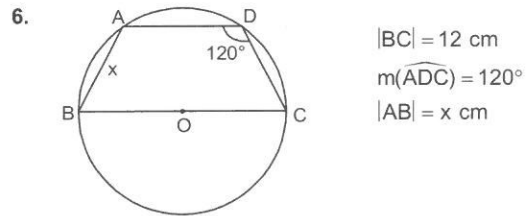
$s(ABCD) = ? \text{ cm}^2$

- A) 22 B) 20 C) 18 D) 16 E) 14



$\angle(ABCD) = ? \text{ cm}$

- A) 48 B) 42 C) 36 D) 30 E) 24

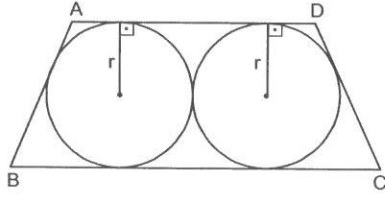


$x = ?$

- A) 4 B) 6 C) 8 D) 10 E) 12



7.



$$|AD| = 12 \text{ cm}$$

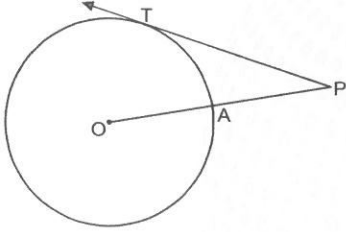
$$|BC| = 17 \text{ cm}$$

$$r = 2 \text{ cm}$$

$$|AB| + |DC| = ?$$

- A) 24 B) 23 C) 22 D) 21 E) 20

8.



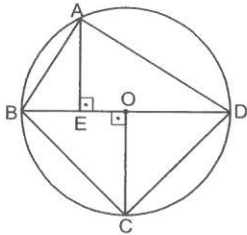
$$|PO| = 2|PA|$$

$$|PT| = 12\sqrt{3} \text{ cm}$$

$$|\widehat{AT}| = ? \text{ cm}$$

- A) 2π B) 3π C) 4π D) 5π E) 6π

9.



$$[AE] \perp [BD]$$

$$[OC] \perp [BD]$$

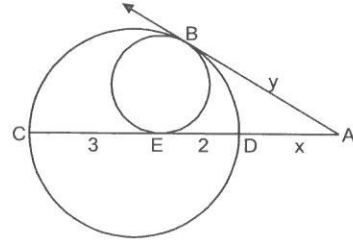
$$|OD| = x \text{ cm}$$

$$|AE| = \frac{x}{4} \text{ cm}$$

$$\frac{s(\triangle ABD)}{s(\triangle OCD)} = ?$$

- A) 1 B) $\frac{1}{2}$ C) $\frac{1}{4}$ D) $\frac{1}{8}$ E) $\frac{1}{16}$

10.



$$|EC| = 3 \text{ cm}$$

$$|ED| = 2 \text{ cm}$$

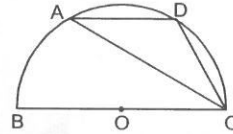
$$|AD| = x \text{ cm}$$

$$|AB| = y \text{ cm}$$

$$x \cdot y = ?$$

- A) 24 B) 26 C) 28 D) 30 E) 32

11.



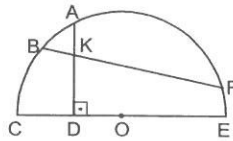
$$|\widehat{AB}| = |\widehat{AD}| = |\widehat{DC}|$$

$$|BC| = 8 \text{ cm}$$

$$s(\triangle ADC) = ? \text{ cm}^2$$

- A) $16\sqrt{3}$ B) 16 C) $8\sqrt{3}$ D) 8 E) $4\sqrt{3}$

12.



$$[AD] \perp [CE]$$

$$|BK| = 6 \text{ cm}$$

$$|KF| = 8 \text{ cm}$$

$$|AK| = 4 \text{ cm}$$

$$|KD| = x \text{ cm}$$

$$x = ?$$

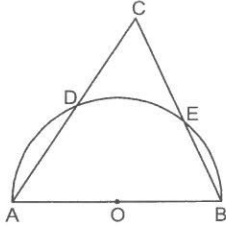
- A) 2 B) 3 C) 4 D) 5 E) 6

Cevap Anahtarı – Answer Sheet

1.C	2.E	3.D	4.B	5.A	6.B
7.D	8.C	9.B	10.A	11.E	12.C



1.

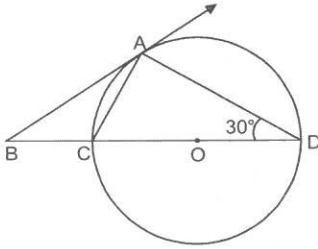


$$\begin{aligned} |CD| &= 2 \text{ cm} \\ |AD| &= 7 \text{ cm} \\ |AB| &= 9 \text{ cm} \\ |CB| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

- A) $2\sqrt{2}$ B) 3 C) $2\sqrt{3}$ D) 4 E) 6

2.

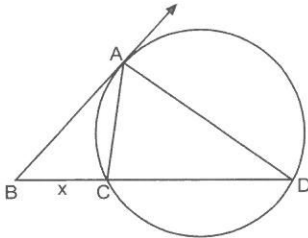


$$\begin{aligned} m(\widehat{ADB}) &= 30^\circ \\ |AD| &= 4\sqrt{3} \text{ cm} \end{aligned}$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) $2\sqrt{3}$ B) 4 C) $4\sqrt{3}$ D) 8 E) $8\sqrt{3}$

3.

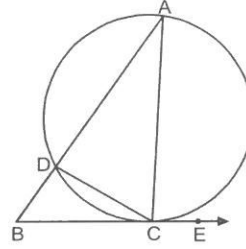


$$\begin{aligned} |AB| &= 9 \text{ cm} \\ |AC| &= 8 \text{ cm} \\ |AD| &= 12 \text{ cm} \\ |BC| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

- A) 12 B) 9 C) 8 D) 7 E) 6

4.

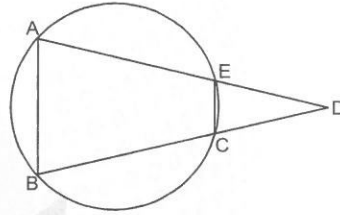


$$\begin{aligned} |BC| &= 6 \text{ cm} \\ |BD| &= 4 \text{ cm} \\ |DC| &= 6 \text{ cm} \\ |AC| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

- A) $3\sqrt{3}$ B) 6 C) $6\sqrt{2}$ D) 9 E) $6\sqrt{3}$

5.

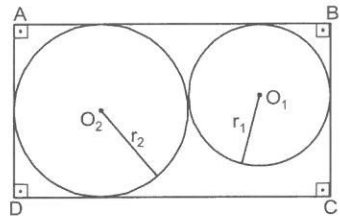


$$\begin{aligned} |EC| &= 4 \text{ cm} \\ |ED| &= 9 \text{ cm} \\ |BD| &= 27 \text{ cm} \\ |AB| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

- A) 12 B) 10 C) 9 D) 8 E) 6

6.



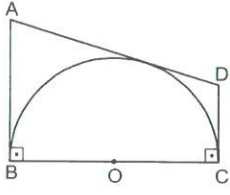
$$\begin{aligned} r_1 &= 1 \text{ cm} \\ r_2 &= 4 \text{ cm} \\ |DC| &= x \text{ cm} \end{aligned}$$

$$x = ?$$

- A) 8 B) 9 C) 10 D) 11 E) 12



7.

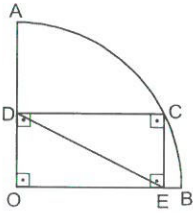


$[AB] \perp [BC]$
 $[AB] \parallel [DC]$
 $|AB| = 6 \text{ cm}$
 $|DC| = 2 \text{ cm}$
 $|OC| = r \text{ cm}$

$x = ?$

- A) $2\sqrt{3}$ B) $3\sqrt{3}$ C) $4\sqrt{3}$ D) $5\sqrt{3}$ E) $6\sqrt{3}$

8.

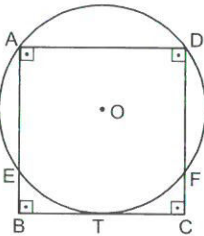


$[DC] \parallel [OE]$
 $[DO] \parallel [CE]$
 $m(\angle DOB) = 90^\circ$
 $|DE| = 15 \text{ cm}$
 $|AD| = 6 \text{ cm}$
 $|EB| = x \text{ cm}$

$x = ?$

- A) 1 B) $\frac{3}{2}$ C) 2 D) $\frac{5}{2}$ E) 3

9.

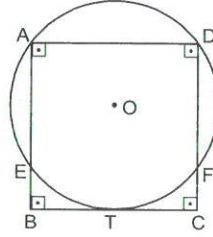


$|BT| = 2\sqrt{6} \text{ cm}$
 $|EB| = 2 \text{ cm}$
 $r = ? \text{ cm}$

$x = ?$

- A) 4 B) 5 C) 6 D) 7 E) 8

10.

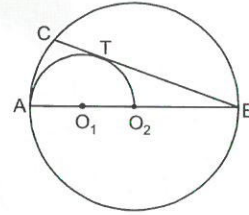


$|AB| = |AD| = |DC| = |BC|$
 $|DC| = 8 \text{ cm}$

$r = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

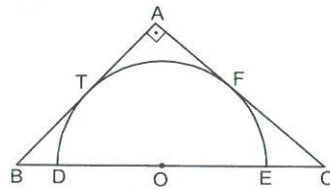
11.



$\frac{|BT|}{|BC|} = ?$

- A) $\frac{1}{3}$ B) $\frac{2}{3}$ C) $\frac{3}{4}$ D) $\frac{1}{2}$ E) $\frac{3}{5}$

12.



$[BA] \perp [AC]$
 $|AB| = 9 \text{ cm}$
 $|AC| = 12 \text{ cm}$

$r = ?$

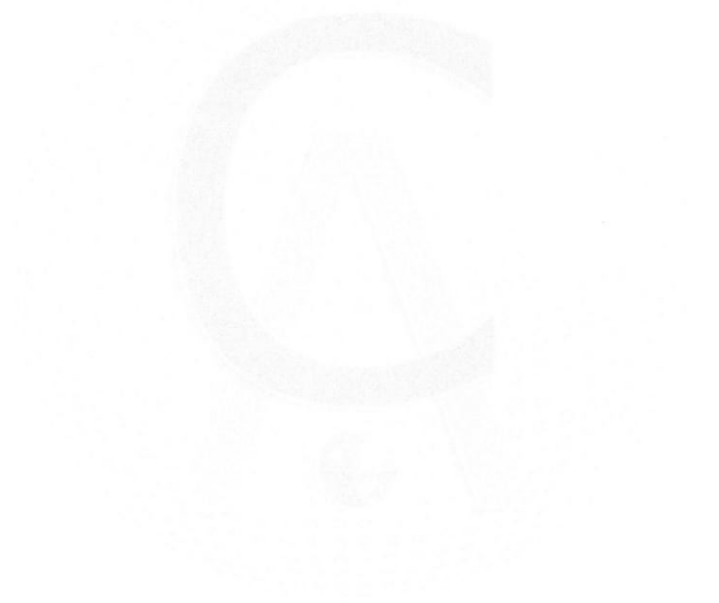
- A) $\frac{40}{7}$ B) $\frac{36}{7}$ C) $\frac{30}{7}$ D) $\frac{24}{7}$ E) $\frac{18}{7}$

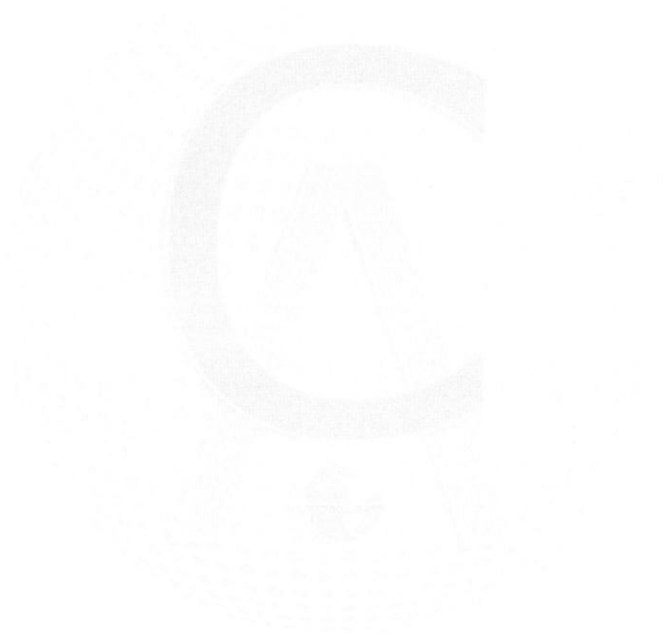
Cevap Anahtarı – Answer Sheet

1.E	2.C	3.E	4.D	5.A	6.B
7.A	8.E	9.D	10.C	11.C	12.B

18. BÖLÜM

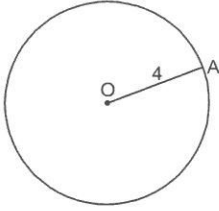
DAİREDE ALAN







1.



$|OA| = 4 \text{ cm}$

$S = ? \text{ cm}^2$

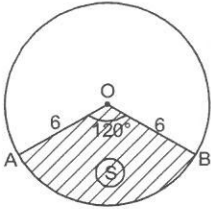
$\zeta = ? \text{ cm}$

- A) $S = 16\pi$ B) $S = 16\pi$ C) $S = 8\pi$
 $\zeta = 16\pi$ $\zeta = 4\pi$ $\zeta = 8\pi$

D) $S = 16\pi$
 $\zeta = 8\pi$

E) $S = 8\pi$
 $\zeta = 4\pi$

2.

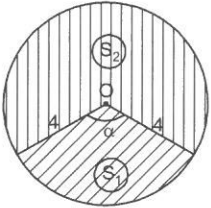


$|OA| = r = 6 \text{ cm}$

$S_T = ? \text{ cm}^2$

- A) 6π B) 9π C) 12π D) 15π E) 18π

3.

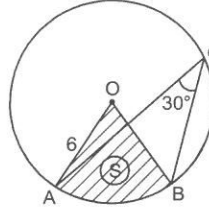


$\alpha = 80^\circ$

$\frac{S_1}{S_2} = ?$

- A) $\frac{2}{7}$ B) $\frac{3}{7}$ C) $\frac{4}{9}$ D) $\frac{5}{8}$ E) $\frac{6}{13}$

4.



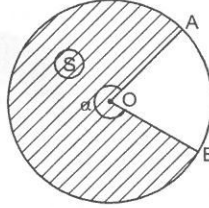
$|OA| = r = 6 \text{ cm}$

$m(\widehat{ACB}) = 30^\circ$

$S_T = ? \text{ cm}^2$

- A) 12π B) 10π C) 9π D) 8π E) 6π

5.



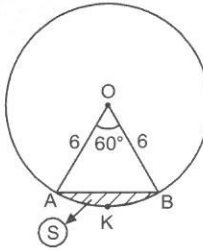
$\alpha = 270^\circ$

$|OA| = r = 4 \text{ cm}$

$S_T = ? \text{ cm}^2$

- A) 15π B) 12π C) 9π D) 8π E) 6π

6.



$|OA| = 6 \text{ cm}$

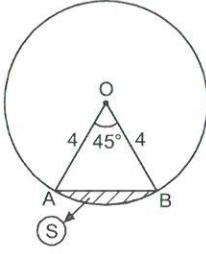
$m(\widehat{AOB}) = 60^\circ$

$S_T = ? \text{ cm}^2$

- A) $4\pi - 9\sqrt{3}$ B) $3\pi - 6\sqrt{3}$
 C) $3\pi - 9\sqrt{3}$ D) $6\pi - 6\sqrt{3}$
 E) $6\pi - 9\sqrt{3}$



7.



$$|OA| = r = 4 \text{ cm}$$

$$m(\widehat{AOB}) = 45^\circ$$

$$S_T = ? \text{ cm}^2$$

A) $\pi - 2\sqrt{2}$

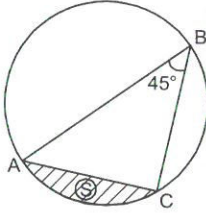
B) $2\pi - 4\sqrt{2}$

C) $2\pi - 2\sqrt{2}$

D) $4\pi - 2\sqrt{2}$

E) $4\pi - 4\sqrt{2}$

8.



$$m(\widehat{ADC}) = 45^\circ$$

$$|AC| = 8\sqrt{2} \text{ cm}$$

$$S_T = ? \text{ cm}^2$$

A) $8\pi - 8\sqrt{2}$

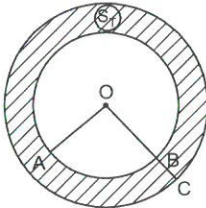
B) $8\pi - 16\sqrt{2}$

C) $16\pi - 32$

D) $16\pi - 16\sqrt{2}$

E) $16\pi - 8\sqrt{2}$

9.



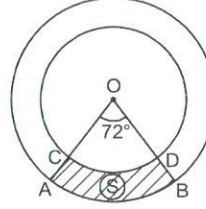
$$|OA| = r_1 = 4 \text{ cm}$$

$$|OC| = r_2 = 6 \text{ cm}$$

$$S_T = ? \text{ cm}^2$$

A) 20π B) 18π C) 16π D) 14π E) 12π

10.



$$|OC| = r_1 = 2 \text{ cm}$$

$$|OA| = r_2 = 7 \text{ cm}$$

$$m(\widehat{AOB}) = 72^\circ$$

$$S_T = ? \text{ cm}^2$$

A) 4π

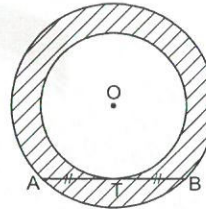
B) 5π

C) 6π

D) 8π

E) 9π

11.



$$|AB| = 12 \text{ cm}$$

$$S_T = ? \text{ cm}^2$$

A) 18π

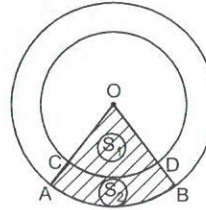
B) 24π

C) 30π

D) 36π

E) 42π

12.



$$|\widehat{CD}| = 2\pi \text{ cm}$$

$$|\widehat{AB}| = 5\pi \text{ cm}$$

$$\frac{S_1}{S_2} = ?$$

A) $\frac{4}{25}$

B) $\frac{4}{21}$

C) $\frac{4}{19}$

D) $\frac{3}{25}$

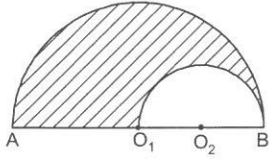
E) $\frac{5}{21}$

Cevap Anahtarı – Answer Sheet

1.D	2.C	3.A	4.E	5.B	6.E
7.B	8.C	9.A	10.E	11.D	12.B



1.

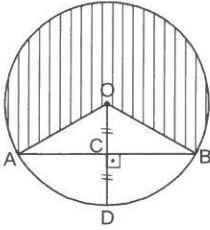


$|AB| = 16 \text{ cm}$

$S_T = ? \text{ cm}^2$

- A)
- 30π
- B)
- 24π
- C)
- 18π
- D)
- 12π
- E)
- 6π

2.



$|OC| = |CD|$

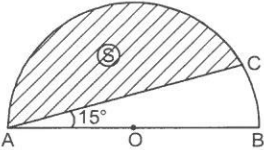
$[OD] \perp [AB]$

$|AB| = 6\sqrt{3} \text{ cm}$

$S_T = ? \text{ cm}^2$

- A)
- 36π
- B)
- 30π
- C)
- 24π
- D)
- 18π
- E)
- 12π

3.



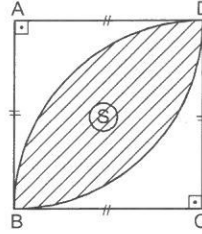
$|OB| = r = 6 \text{ cm}$

$m(\widehat{CAB}) = 15^\circ$

$S_T = ? \text{ cm}^2$

- A)
- $15\pi - 9$
- B)
- $15\pi - 6$
- C)
- $12\pi - 9$
-
- D)
- $12\pi - 6$
- E)
- $9\pi - 9$

4.

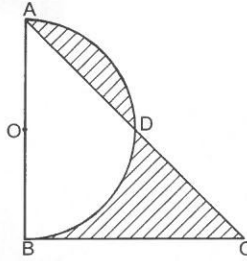


$|AD| = |DC| = |BC| = |AB| = 2 \text{ cm}$

$S_T = ? \text{ cm}^2$

- A)
- $\pi - 2$
- B)
- $2\pi - 2$
- C)
- $2\pi - 4$
- D)
- $4\pi - 2$
- E)
- $4\pi - 4$

5.



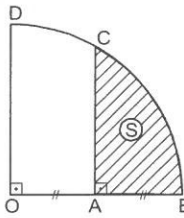
$[AB] \perp [BC]$

$|AB| = |BC| = 12 \text{ cm}$

$S_T = ? \text{ cm}^2$

- A) 72 B) 60 C) 48 D) 36 E) 24

6.



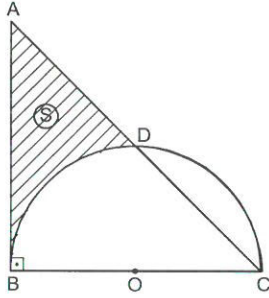
$|OA| = |AB| = 3 \text{ cm}$

$S_T = ? \text{ cm}^2$

- A)
- $6\pi - \frac{9\sqrt{3}}{2}$
- B)
- $6\pi - 9\sqrt{3}$
-
- C)
- $4\pi - 6\sqrt{3}$
- D)
- $4\pi - 9\sqrt{3}$
-
- E)
- $4\pi - \frac{9\sqrt{3}}{2}$



7.



$[AB] \perp [BC]$

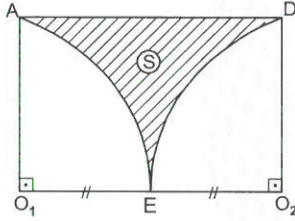
$|AB| = |BC|$

$|OC| = 2 \text{ cm}$

$S_T = ? \text{ cm}^2$

- A)
- $6-\pi$
- B)
- $4-\pi$
- C)
- $\pi-6$
- D)
- $\pi-4$
- E)
- $\pi-2$

8.



$[AO_1] \parallel [DO_2]$

$[AD] \parallel [O_1O_2]$

$[AD] \parallel [BC]$

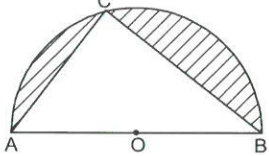
$[AB] \perp [BC]$

$|AD| = 12 \text{ cm}$

$S_T = ? \text{ cm}^2$

- A)
- $72-6\pi$
- B)
- $72-8\pi$
- C)
- $72-9\pi$
-
- D)
- $72-18\pi$
- E)
- $72-24\pi$

9.



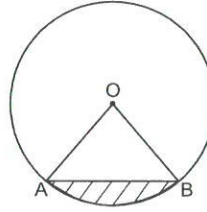
$|AC| = 12 \text{ cm}$

$|CB| = 16 \text{ cm}$

$S_T = ? \text{ cm}^2$

- A)
- $50\pi-100$
- B)
- $50\pi-96$
- C)
- $50\pi-84$
-
- D)
- $25\pi-96$
- E)
- $25\pi-48$

10.



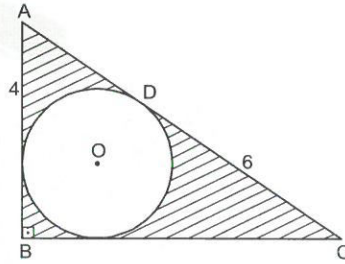
$|\widehat{AB}| = 2\pi \text{ cm}$

$|OB| = 6 \text{ cm}$

$S_T = ? \text{ cm}^2$

- A)
- $6\pi-9$
- B)
- $6\pi-18$
- C)
- $6\pi-6\sqrt{3}$
-
- D)
- $6\pi-9\sqrt{3}$
- E)
- $9\pi-9\sqrt{3}$

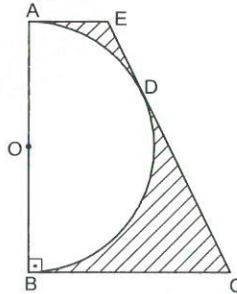
11.



$S_T = ? \text{ cm}^2$

- A)
- $36-8\pi$
- B)
- $24-16\pi$
- C)
- $24-4\pi$
-
- D)
- $18-4\pi$
- E)
- $12-4\pi$

12.



$[AB] \perp [BC]$

$[AE] \parallel [BC]$

$|AE| = 1 \text{ cm}$

$|BC| = 4 \text{ cm}$

$S_T = ? \text{ cm}^2$

- A)
- $12-2\pi$
- B)
- $10-2\pi$
- C)
- $10-4\pi$
-
- D)
- $8-2\pi$
- E)
- $8-4\pi$

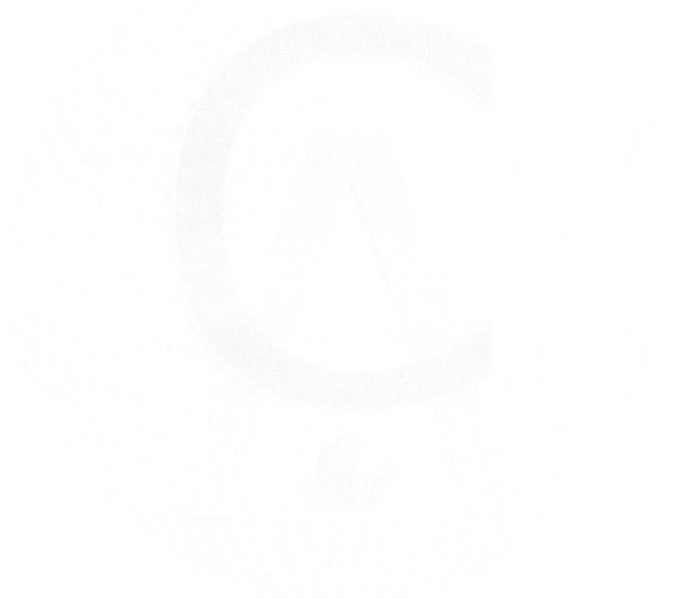
Cevap Anahtarı – Answer Sheet

1.B	2.C	3.A	4.C	5.D	6.A
7.A	8.D	9.B	10.D	11.C	12.B

19. BÖLÜM

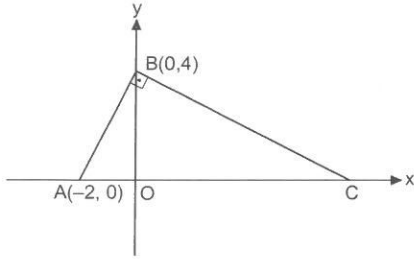
ANALİTİK GEOMETRİ







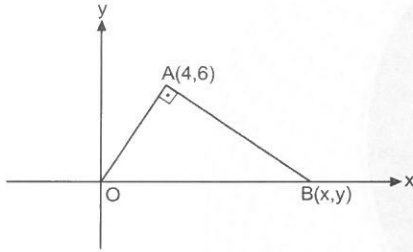
1.



$|AC| = ?$

- A) 6 B) 7 C) 8 D) 9 E) 10

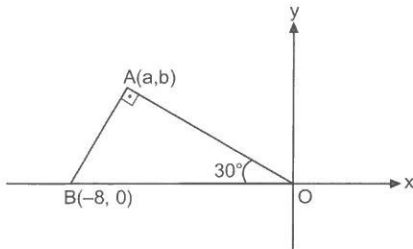
2.



$x = ?$

- A) 15 B) 14 C) 13 D) 12 E) 11

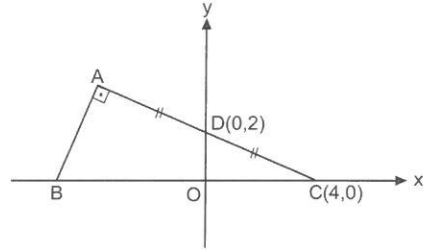
3.



$a = ?$

- A) -6 B) -5 C) -4 D) -3 E) -2

4.



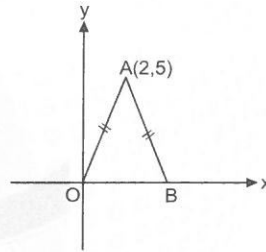
$|AD| = |DC|$

$m(\widehat{BAC}) = 90^\circ$

$s(\triangle ABC) = ? \text{ cm}^2$

- A) 50 B) 40 C) 30 D) 20 E) 10

5.

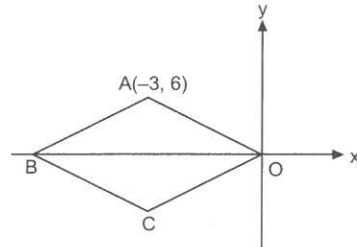


$|AO| = |AB|$

$s(\triangle OAB) = ? \text{ cm}^2$

- A) 5 B) 10 C) 15 D) 20 E) 25

6.



$[AB] \parallel [OC]$

$[BC] \parallel [AO]$

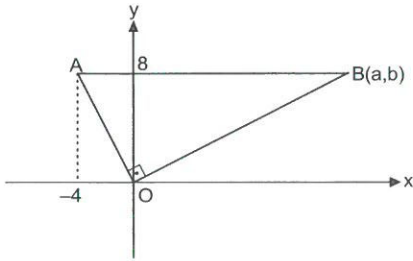
$[AB] \perp [BC]$

$s(OABC) = \text{cm}^2$

- A) 100 B) 90 C) 80 D) 70 E) 60



7.

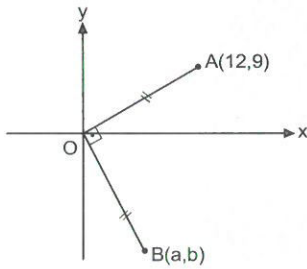


$$m(\widehat{AOB}) = 90^\circ$$

$$a + b = ?$$

- A) 16 B) 20 C) 24 D) 28 E) 32

8.

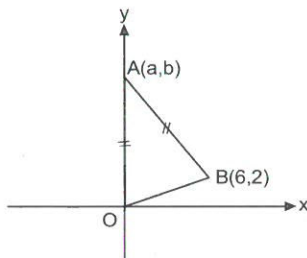


$$m(\widehat{AOB}) = 90^\circ$$

$$a + b = ?$$

- A) 1 B) 0 C) -1 D) -2 E) -3

9.

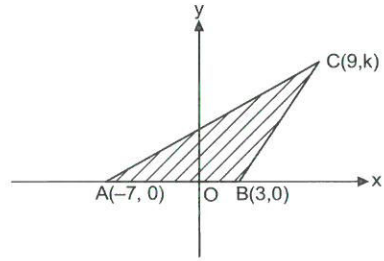


$$|AO| = |AB|$$

$$a - b = ?$$

- A) -10 B) -8 C) -6 D) 8 E) 10

10.

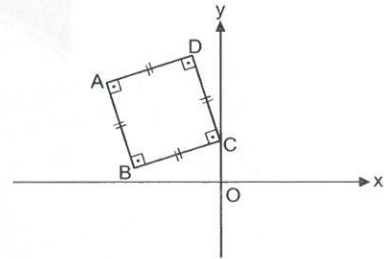


$$|AB| = |BC|$$

$$s(\triangle ABC) = ? \text{ cm}^2$$

- A) 50 B) 45 C) 40 D) 35 E) 30

11.



$$C(0, 3)$$

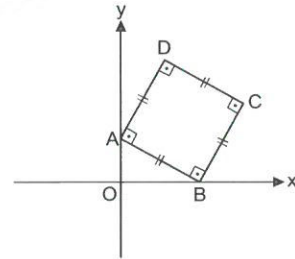
$$D(-2, 9)$$

$$A(a, b)$$

$$a + b = ?$$

- A) -3 B) -2 C) -1 D) 0 E) 1

12.



$$A(0, 3)$$

$$B(5, 0)$$

$$C(a, b)$$

$$a + b = ?$$

- A) 14 B) 13 C) 12 D) 11 E) 10

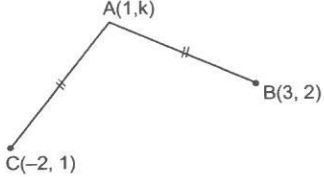
Cevap Anahtarı – Answer Sheet

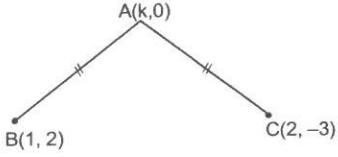
1.E	2.C	3.A	4.D	5.B	6.B
7.C	8.E	9.A	10.C	11.C	12.B

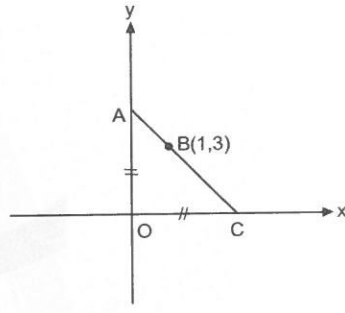


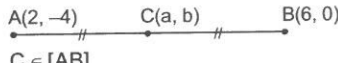
1. 
 $|AB| = d = ?$
A) 8 B) 10 C) 12 D) 15 E) 17

2. 
 $|AB| = 2\sqrt{5}$
 $y \in \mathbb{Z}^+$
 $y = ?$
A) 7 B) 6 C) 5 D) 4 E) 3

3. 
 $|AC| = |AB|$
 $k = ?$
A) -3 B) -2 C) -1 D) 0 E) 1

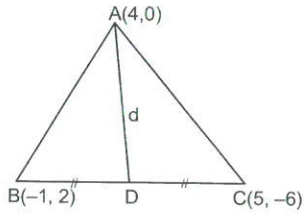
4. 
 $|AB| = |AC|$
 $k = ?$
A) -1 B) -2 C) -3 D) 4 E) 5

5. 
 $|AO| = |OC|$
 $B(1, 3)$
 $s(\triangle AOC) = ?$
A) 16 B) 14 C) 12 D) 10 E) 8

6. 
 $C \in [AB]$
 $a.b = ?$
A) 0 B) -4 C) -8 D) 4 E) 8



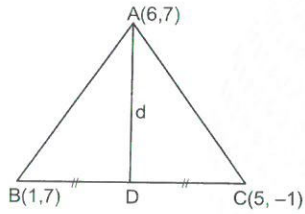
7.



$$|AD| = d = ?$$

- A) 2 B) $2\sqrt{2}$ C) 4 D) $4\sqrt{2}$ E) 8

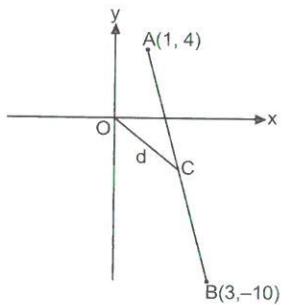
8.



$$|AD| = d = ?$$

- A) 5 B) $5\sqrt{2}$ C) 10 D) $10\sqrt{2}$ E) 13

9.

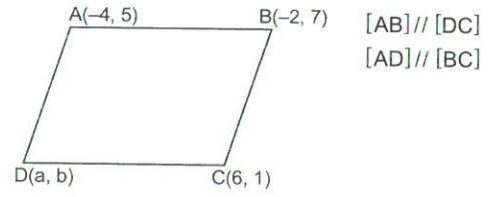


$$C \in [AB] \\ |AC| = |CB|$$

$$|OC| = d = ?$$

- A) $2\sqrt{3}$ B) $\sqrt{13}$ C) 4 D) 5 E) $2\sqrt{7}$

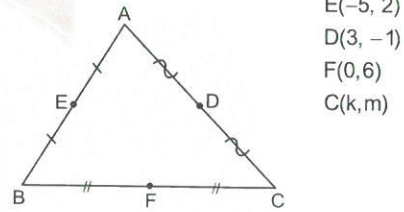
10.



$$b.c = ?$$

- A) 4 B) 2 C) 0 D) -2 E) -4

11.



$$k + m = ?$$

- A) 14 B) 13 C) 12 D) 11 E) 10

12.



$$k.m = ?$$

- A) -16 B) -12 C) -8 D) -4 E) 0

Cevap Anahtarı – Answer Sheet

1.B	2.A	3.C	4.D	5.E	6.C
7.B	8.A	9.B	10.E	11.D	12.C



1. $A(-5, 6)$
 $B(3, -6)$
 $C \in [AB]$
 $|BC| = 3|AC|$
 $C(a, b)$

$$a+b = ?$$

- A) -6 B) -3 C) 0 D) 3 E) 6

2. $A(-5, 2)$
 $B(1, 0)$
 $D \in [AB]$
 $E \in [DC]$
 $|DE| = 2|EC|$
 $E(6, -1)$
 $C(a, b)$

$$a+b = ?$$

- A) 10 B) 8 C) 6 D) 4 E) 2

3. $A(3, 8)$
 $B(-3, 2)$
 $C(6, -1)$
 $G(a, b)$

$$a.b = ?$$

- A) 16 B) 12 C) 9 D) 6 E) 4

4. $A(4, 5)$
 $B(3, 4)$
 $C(-1, 6)$

$$s(ABC) = ?$$

- A) 3 B) 6 C) 9 D) 12 E) 15

5. $A(4, 5)$
 $B(5, -1)$
 $C(-2, 2)$
 $D(-3, 4)$

$$s(ABCD) = ?$$

- A) 36 B) 33 C) 30 D) 27 E) 24

6. $A(5, -1)$
 $B(4, 2)$
 $C(2, k)$

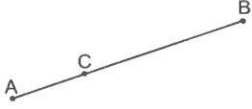
$$B \in [AC]$$

$$k = ?$$

- A) -6 B) -4 C) -1 D) 3 E) 8



7.



$C \in [AB]$
 $A(3,5)$
 $B(1,6)$
 $C(k,-4)$

 $k = ?$

- A) 21 B) 18 C) 16 D) 15 E) 12

8.

$A(-2,3)$
 $B(1,-3)$
 $C(5,k)$
 $D(1,9)$
 $AB \parallel CD$

 $k = ?$

- A) -3 B) -2 C) -1 D) 0 E) 1

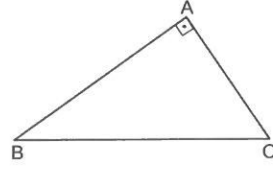
9.

$A(k,3)$
 $B(2,1)$
 $C(4,-2)$
 $[AB] \perp [BC]$

 $k = ?$

- A) 6 B) 5 C) 2 D) -3 E) -6

10.

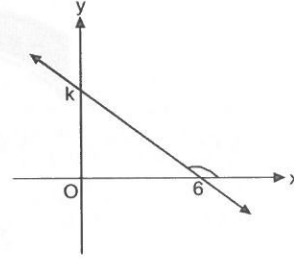


$A(5,3)$
 $B(-1,2)$
 $C(7,k)$

 $k = ?$

- A) -4 B) -6 C) -9 D) -10 E) -15

11.

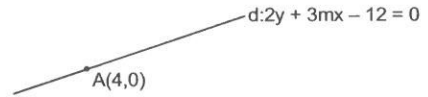


$$m = \tan \alpha = -\frac{2}{3}$$

 $k = ?$

- A) -6 B) -4 C) -2 D) 4 E) 6

12.

 $m = ?$

- A) -1 B) 0 C) 1 D) 2 E) 3

Cevap Anahtarı – Answer Sheet

1.C	2.B	3.D	4.A	5.D	6.E
7.A	8.E	9.B	10.C	11.D	12.C



$$m = \tan \alpha = -3$$

$d = ?$

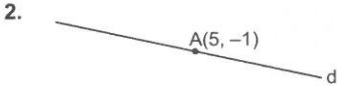
A) $y - 3x + 5 = 0$

B) $y + 3x + 5 = 0$

C) $y + 3x - 1 = 0$

D) $3y - x + 1 = 0$

E) $3y + x - 1 = 0$



$$m = \tan \alpha = -2$$

$d = ?$

A) $y = -2x - 7$

B) $y = -2x - 3$

C) $y = -2x + 1$

D) $y = -2x + 5$

E) $y = -2x + 9$



A) $y = -2x - 4$

B) $y = -2x + 4$

C) $y = 2x - 4$

D) $y = 2x + 4$

E) $y = -\frac{1}{2}x + 4$



$k = ?$

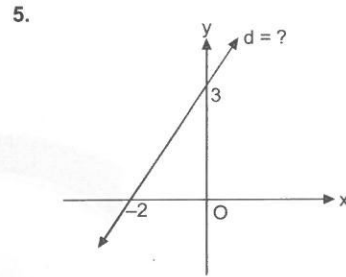
A) -2

B) -1

C) 0

D) 2

E) 3



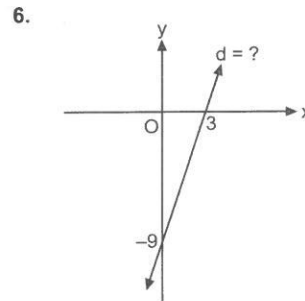
A) $3x - 2y - 6 = 0$

B) $3x - 2y + 6 = 0$

C) $3x + 2y - 6 = 0$

D) $2x - 3y + 6 = 0$

E) $2x + 3y - 6 = 0$



A) $y - 3x - 9 = 0$

B) $y + 3x - 9 = 0$

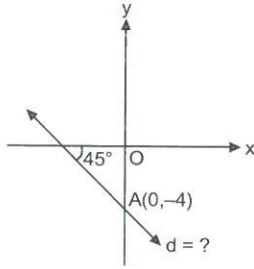
C) $3x + y + 9 = 0$

D) $3x - y - 9 = 0$

E) $3x - y + 9 = 0$



7.

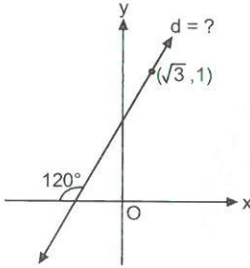


A) $-y + x + 4 = 0$
C) $y + x - 4 = 0$

E) $y + x + 4 = 0$

B) $y - x + 4 = 0$
D) $y + x + 2 = 0$

8.



x = ?

A) $y = -\sqrt{3}x + 4$

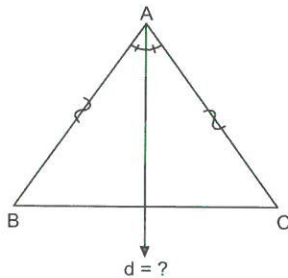
B) $y = \sqrt{3}x + 2$

C) $y = \sqrt{3}x - 2$

D) $y = \frac{\sqrt{3}}{3}x + 2$

E) $y = \frac{\sqrt{3}}{3}x - 2$

9.



B(-3, 4)
C(1, 2)

A) $y - 2x - 5 = 0$

B) $y + 2x - 5 = 0$

C) $y - 2x + 5 = 0$

D) $y - 2x + 7 = 0$

E) $y - 2x - 7 = 0$

10.

$d_1 = 3x + 2y - 5 = 0$

$d_2 = ?$

$d_1 \parallel d_2$

$d_2 = ?$

A) $2x - 3y - 1 = 0$

B) $3x - 2y - 8 = 0$

C) $3x + 2y + 8 = 0$

D) $3x + 2y - 8 = 0$

E) $3x + 2y - 5 = 0$

11.

$d_1 = y = x - 2$

$d_2 = ?$

$d_1 \parallel d_2$

$d_2 = ?$

A) $y = x + 5$

B) $y = x + 1$

C) $y = x - 2$

D) $y = -x + 3$

E) $y = -2x + 4$

12.

$d_1 = 3x + 2y - 5 = 0$

$d_2 = ?$

$d_1 \perp d_2$

$d_2 = ?$

A) $2x - 3y - 1 = 0$

B) $2x + 3y - 8 = 0$

C) $2x + 3y + 1 = 0$

D) $3x - 2y - 4 = 0$

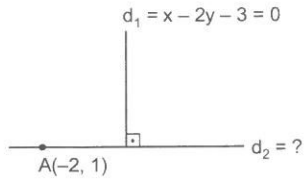
E) $2x - 3y + 1 = 0$

Cevap Anahtarı – Answer Sheet

1.C	2.E	3.A	4.D	5.B	6.D
7.E	8.C	9.A	10.D	11.B	12.A



1.



$$d_1 \perp d_2$$

$$d_2 = ?$$

$$x = ?$$

A) $2x + y + 5 = 0$

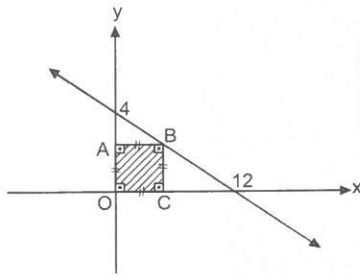
B) $2x + y + 3 = 0$

C) $2x - y + 5 = 0$

D) $x - 2y + 4 = 0$

E) $x + 2y = 0$

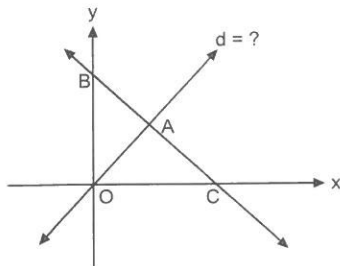
2.



$$s(ABCO) = ?$$

A) 1 B) 4 C) 9 D) 16 E) 25

3.



$$B(0, 6)$$
$$C(12, 0)$$
$$|AC| = 2|AB|$$

$$d = ?$$

A) $x - y = 0$

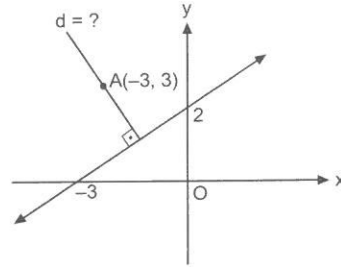
B) $x + y = 0$

C) $x + 2y = 0$

D) $2x + y = 0$

E) $2x - y = 0$

4.



$$A(-3, 3)$$

$$d = ?$$

A) $2x + 3y + 3 = 0$

B) $2x + 3y - 3 = 0$

C) $3x + 2y - 3 = 0$

D) $3x + 2y + 3 = 0$

E) $3x + 2y + 5 = 0$

5.

$$d_1 = 2x - my - 3 = 0$$

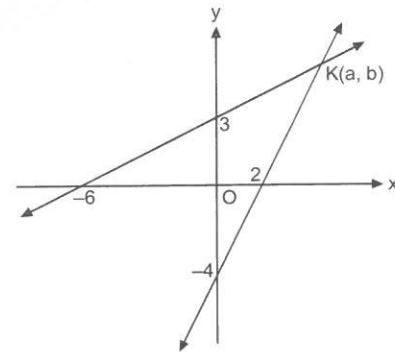
$$A(-4, 3) \quad B(3, 5) \quad d_2 = ?$$

$$d_1 \parallel d_2$$

$$d_2 = ?$$

A) 3 B) 4 C) 5 D) 6 E) 7

6.



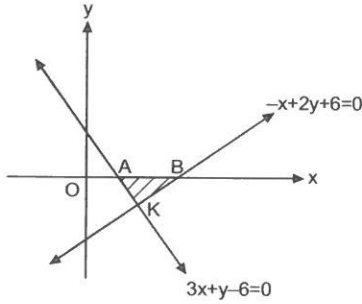
$$K(a, b)$$

$$a + b = ?$$

A) $\frac{28}{3}$ B) $\frac{30}{3}$ C) $\frac{32}{3}$ D) $\frac{34}{3}$ E) 12

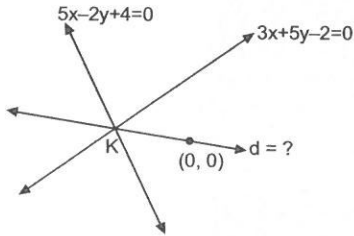


7.

 $s(ABK) = ?$

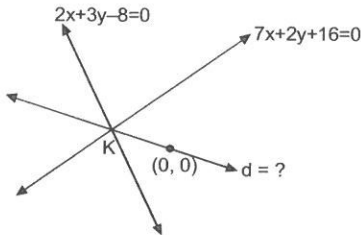
- A) $\frac{24}{7}$ B) $\frac{32}{7}$ C) $\frac{36}{7}$ D) $\frac{40}{7}$ E) $\frac{44}{7}$

8.



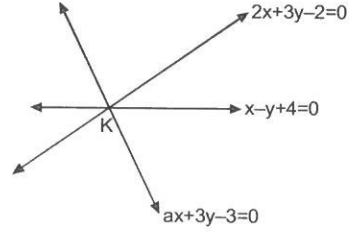
- A) $3x + 4y = 0$ B) $5x + 4y = 0$
 C) $9x - 7y = 0$ D) $11x + 8y = 0$
 E) $8x - 7y = 0$

9.



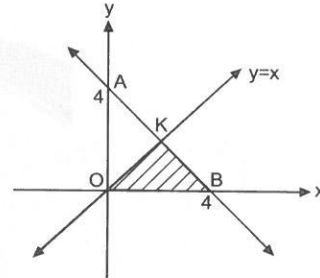
- A) $6x + 7y = 0$ B) $11x + 8y = 0$
 C) $8x + 11y = 0$ D) $7x + 6y = 0$
 E) $9x + 5y = 0$

10.

 $a = ?$

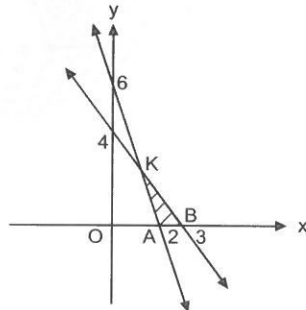
- A) $\frac{3}{2}$ B) $\frac{1}{4}$ C) 1 D) $-\frac{1}{4}$ E) $-\frac{1}{2}$

11.

 $s(OKB) = ?$

- A) 4 B) $\frac{9}{2}$ C) 5 D) $\frac{11}{2}$ E) 6

12.

 $s(KAB) = ?$

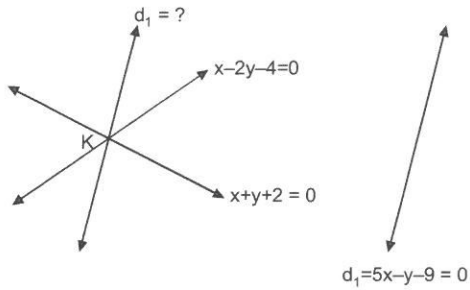
- A) $\frac{18}{5}$ B) $\frac{14}{5}$ C) $\frac{12}{5}$ D) $\frac{9}{5}$ E) $\frac{6}{5}$

Cevap Anahtarı – Answer Sheet

1.B	2.C	3.A	4.D	5.E	6.B
7.A	8.D	9.B	10.A	11.A	12.E



1.



$$d_1 \parallel d_2$$

$$d_1 = ?$$

A) $y + 5x + 2 = 0$

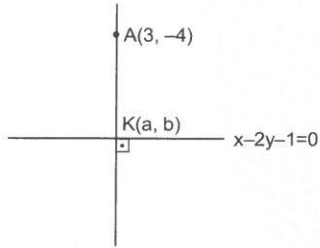
B) $y - 5x + 4 = 0$

C) $y - 5x + 2 = 0$

D) $y - 5x - 2 = 0$

E) $y + 5x - 4 = 0$

2.



$$K(a, b)$$

$$b - a = ?$$

A) -2

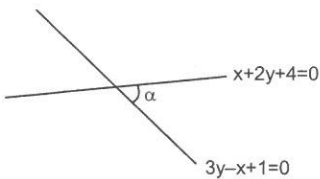
B) -1

C) 0

D) 1

E) 2

3.



$$\alpha < 90^\circ$$

$$\alpha = ?$$

A) 15

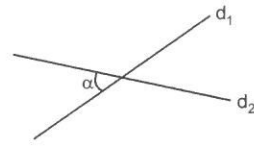
B) 30

C) 45

D) 60

E) 75

4.



$$d_1: 2x + 3y - 1 = 0$$

$$d_2: ax + y + 4 = 0$$

$$\tan \alpha = \frac{11}{3}$$

$$a = ?$$

A) 3

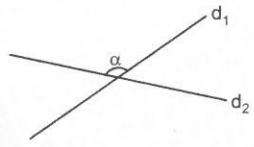
B) 2

C) 1

D) -1

E) -3

5.



$$d_1: \sqrt{3}x - y + 1 = 0$$

$$d_2: x + y - 5 = 0$$

$$\alpha > 90^\circ$$

$$\alpha = ?$$

A) 160

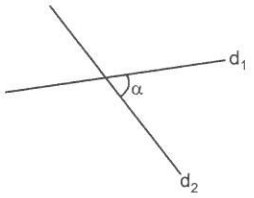
B) 150

C) 135

D) 120

E) 105

6.



$$d_1: y - \sqrt{3}x + 4 = 0$$

$$d_2: x - y + 2 = 0$$

$$\alpha < 90^\circ$$

$$\alpha = ?$$

A) 15

B) 30

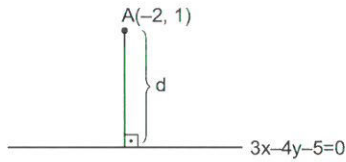
C) 45

D) 60

E) 75

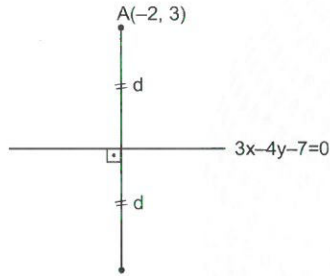


7.

 $d = ?$

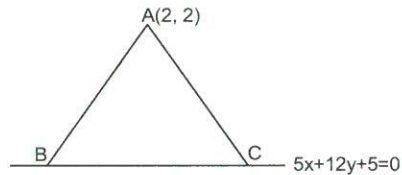
- A) 6 B) 5 C) 4 D) 3 E) 2

8.

 $|AB| = ?$

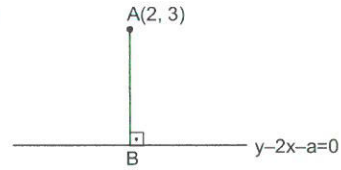
- A) 12 B) 10 C) 8 D) 6 E) 4

9.

 $|AB| = |BC| = |CA|$ $|AC| = ?$

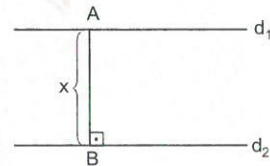
- A)
- $\sqrt{3}$
- B) 3 C)
- $2\sqrt{3}$
- D) 6 E)
- $3\sqrt{3}$

10.

 $a > 0$ $|AB| = \sqrt{5}$ $a = ?$

- A) 1 B) 2 C) 3 D) 4 E) 5

11.

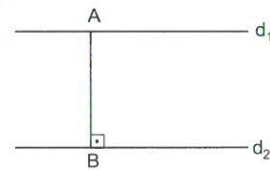


$$\begin{aligned} d_1 : 6x + 2y + 4 &= 0 \\ d_2 : 6x + 2y - 16 &= 0 \\ d_1 // d_2 \end{aligned}$$

 $|AB| = x = ?$

- A) 3 B)
- $\sqrt{10}$
- C)
- $2\sqrt{3}$
- D) 4 E)
- $3\sqrt{2}$

12.



$$\begin{aligned} d_1 : 3x + 4y - 8 &= 0 \\ d_2 : 6x + 8y + 4 &= 0 \end{aligned}$$

 $|AB| = x = ?$

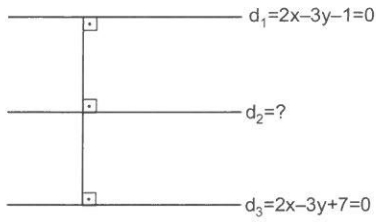
- A) 2 B)
- $\sqrt{5}$
- C)
- $2\sqrt{2}$
- D)
- $\sqrt{10}$
- E)
- $\sqrt{15}$

Cevap Anahtarı – Answer Sheet

1.C	2.B	3.C	4.E	5.E	6.A
7.D	8.B	9.C	10.D	11.B	12.A

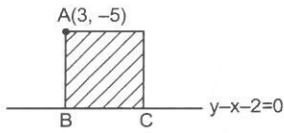


1.



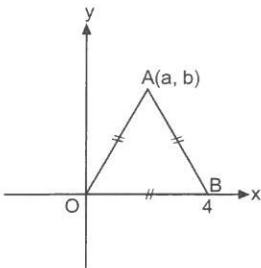
- A) $2x - 3y + 3 = 0$ B) $2x - 3y + 4 = 0$
C) $2x + 3y + 3 = 0$ D) $2x + 3y + 4 = 0$
E) $2x - 3y + 5 = 0$

2.

 $s(ABCD) = ?$

- A) 16 B) 28 C) 36 D) 50 E) 66

3.

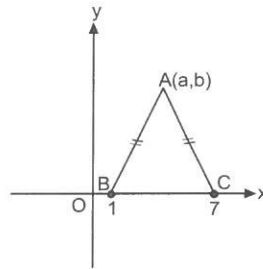


$|AO| = |OB| = |AB|$
 $A(a, b)$

 $a \cdot b = ?$

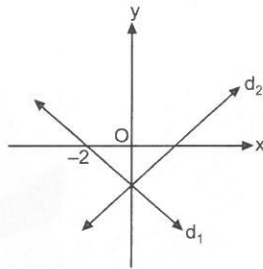
- A) $2\sqrt{3}$ B) $4\sqrt{3}$ C) 6 D) $6\sqrt{3}$ E) 9

4.

 $s(ABC) = 12 br^2$ $A(a, b) = ?$

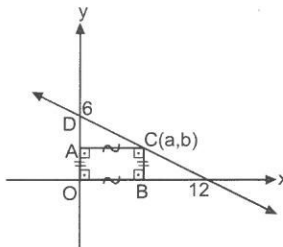
- A) (4, 4) B) (3, 4) C) (4, 3)
D) (3, 3) E) (4, 6)

5.

 $d_1 : x + y + k = 0$ $d_2 : x - 2y + m = 0$ $k - m = ?$

- A) -4 B) -2 C) 0 D) 2 E) 6

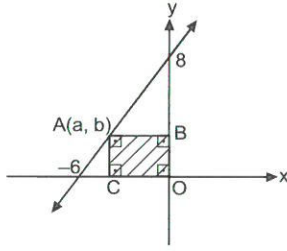
6.

 $s(AOBC) = 16 br^2$ $C(a, b)$ $a \neq b$ $a + b = ?$

- A) 6 B) 8 C) 10 D) 12 E) 14



7.

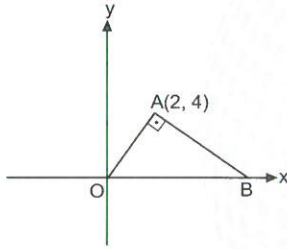


$$\text{Ç}(\text{ABOC}) = 14 \text{ br}$$

$$\text{A}(a, b) = ?$$

- A) $(-3, 4)$ B) $(-2, 3)$ C) $(-4, 3)$
D) $(-4, 4)$ E) $(-3, 6)$

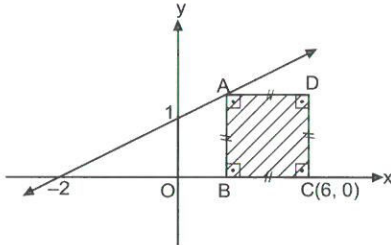
8.



$$s(\text{OAB}) = ? \text{ br}^2$$

- A) 8 B) 12 C) 16 D) 20 E) 24

9.

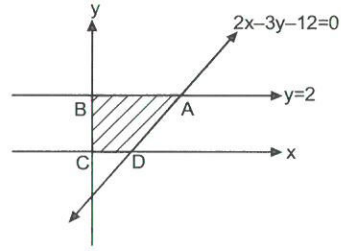


$$\text{D}(k, m)$$

$$k.m = ?$$

- A) 24 B) 16 C) 8 D) $\frac{16}{3}$ E) $\frac{8}{3}$

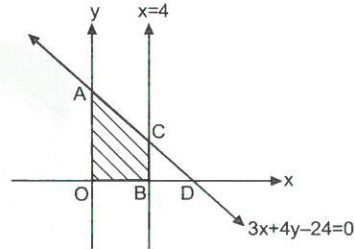
10.



$$s(\text{ABCD}) = ? \text{ br}^2$$

- A) 9 B) 12 C) 15 D) 18 E) 21

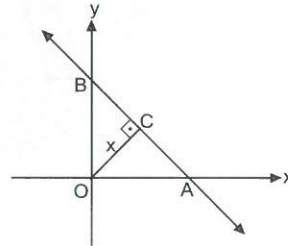
11.



$$s(\text{AOCD}) = ? \text{ br}^2$$

- A) 20 B) 18 C) 16 D) 14 E) 12

12.



$$\text{A}(15, 0)$$

$$\text{B}(0, 20)$$

$$[\text{OC}] \perp [\text{AB}]$$

$$|\text{OC}| = x = ?$$

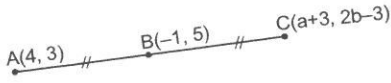
- A) 18 B) 15 C) 12 D) 10 E) 9

Cevap Anahtarı – Answer Sheet

1.A	2.D	3.B	4.A	5.E	6.C
7.A	8.D	9.B	10.C	11.B	12.C



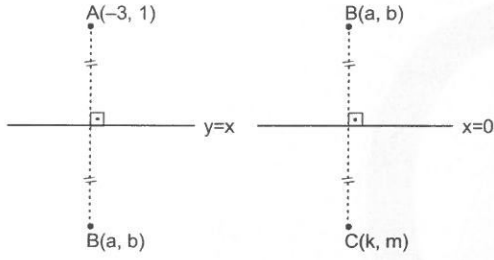
1.



$$\frac{a}{b} = ?$$

- A) $\frac{9}{7}$ B) $\frac{7}{8}$ C) $-\frac{7}{5}$ D) $-\frac{9}{5}$ E) $-\frac{9}{7}$

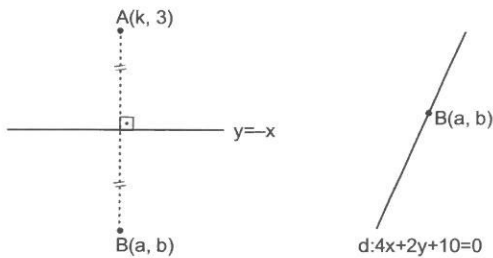
2.



$$C(k, m) = ?$$

- A) (-1, -3) B) (-1, 3) C) (1, -3)
D) (1, 3) E) (-3, -1)

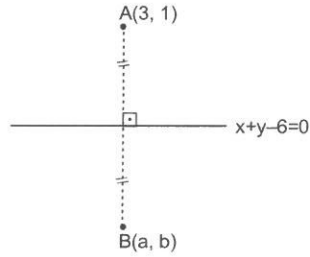
3.



$$k = ?$$

- A) 1 B) 0 C) -1 D) -2 E) -3

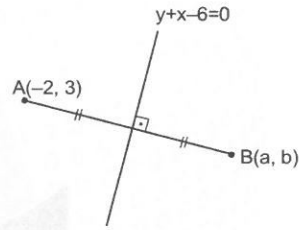
4.



$$B(a, b) = ?$$

- A) (3, 5) B) (5, 3) C) (5, -2)
D) (-2, 5) E) (1, 4)

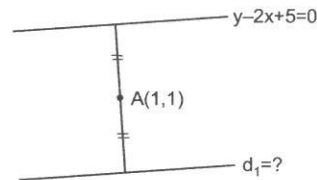
5.



$$B(a, b) = ?$$

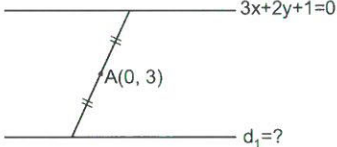
- A) (-3, 8) B) (-1, 3) C) (3, 1)
D) (2, 6) E) (3, 8)

6.



- A) $y - 2x + 4 = 0$ B) $y - 2x - 3 = 0$
C) $y - 2x + 1 = 0$ D) $y + 2x - 5 = 0$
E) $y + 2x - 1 = 0$



7.  $3x+2y+1=0$

 $d_1 = ?$

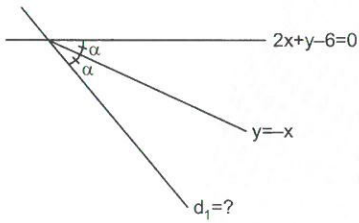
A) $3x+2y+13=0$

B) $3x+2y-13=0$

C) $3x+2y+8=0$

D) $3x+2y=0$

E) $3x+2y-8=0$

8.  $2x+y-6=0$
 $y=-x$
 $d_1=?$

 $d_1 = ?$

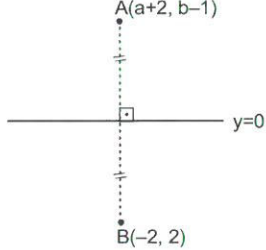
A) $2x-y+6=0$

B) $x+2y-6=0$

C) $x-2y-5=0$

D) $2x+y+6=0$

E) $x+2y+6=0$

9.  $A(a+2, b-1)$
 $B(-2, 2)$
 $y=0$

 $a+b = ?$

A) -5

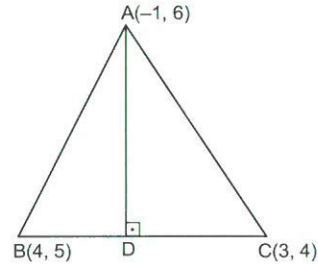
B) -3

C) -1

D) 1

E) 3

10.

 $|AD| = x = ?$

A) $2\sqrt{2}$

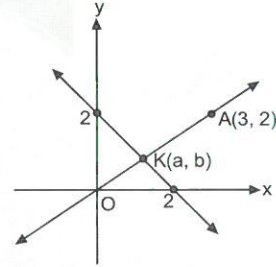
B) $3\sqrt{2}$

C) $2\sqrt{3}$

D) $3\sqrt{3}$

E) 6

11.

 $K(a, b)$
 $a-b = ?$

A) $\frac{2}{5}$

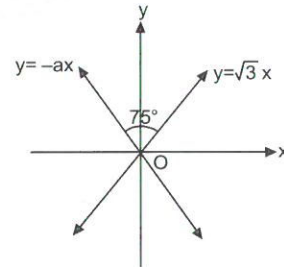
B) 1

C) $\frac{7}{5}$

D) 2

E) $\frac{12}{5}$

12.

 $a = ?$

A) $-\sqrt{3}$

B) -1

C) $\frac{\sqrt{3}}{3}$

D) 1

E) $\sqrt{3}$

Cevap Anahtarı – Answer Sheet

1.D	2.A	3.C	4.B	5.E	6.B
7.B	8.E	9.A	10.B	11.A	12.D

20. BÖLÜM

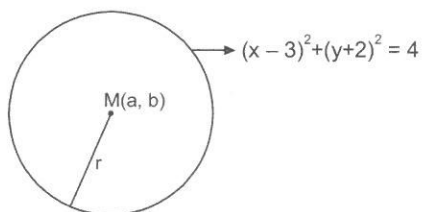
ÇEMBER ANALİTİĞİ







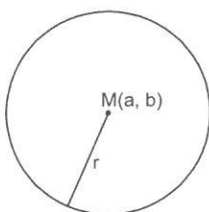
1.



$M(a, b) = ?$
 $r = ?$

- A) $M(3, 2)$ $r = 3$ B) $M(3, -2)$ $r = 2$ C) $M(3, -2)$ $r = 4$
D) $M(-3, 2)$ $r = 4$ E) $M(-3, -2)$ $r = 2$

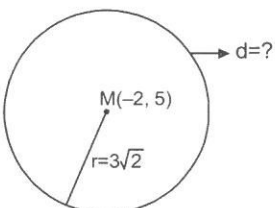
2.



$x^2 + (y-3)^2 = 12$
 $M(a, b) = ?$
 $r = ?$

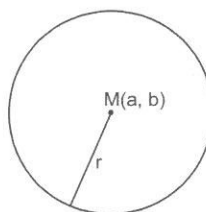
- A) $M(0, -3)$ $r = 2\sqrt{3}$ B) $M(0, -3)$ $r = 12$ C) $M(0, 3)$ $r = 2\sqrt{3}$
D) $M(0, 3)$ $r = 12$ E) $M(3, 0)$ $r = 2\sqrt{3}$

3.



- A) $(x+2)^2 + (y-5)^2 = 12$
B) $(x+2)^2 + (y-5)^2 = 3\sqrt{2}$
C) $(x+2)^2 + (y-5)^2 = 18$
D) $(x-2)^2 + (y-5)^2 = 18$
E) $(x+2)^2 + (y-5)^2 = 18$

4.

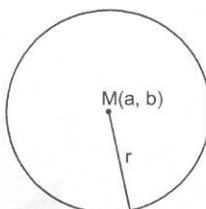


$x^2 + y^2 - 6x + 4y - 2 = 0$

$M(a, b) = ?$
 $r = ?$

- A) $M(3, -2)$ $r = \sqrt{15}$ B) $M(3, 2)$ $r = 2\sqrt{15}$ C) $M(-3, 2)$ $r = \sqrt{15}$
D) $M(3, -2)$ $r = 2\sqrt{15}$ E) $M(3, -2)$ $r = \sqrt{30}$

5.

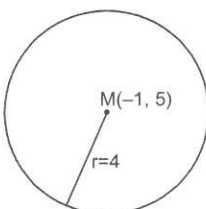


$x^2 + y^2 - 4x + 6y + 9 = 0$
 $M(a, b) = ?$

$r = ?$

- A) $M(2, 3)$ $r = 2$ B) $M(2, -3)$ $r = 4$ C) $M(2, -3)$ $r = 2$
D) $M(2, 3)$ $r = 4$ E) $M(2, -3)$ $r = 1$

6.

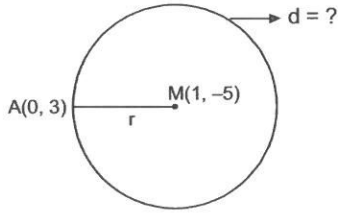


$x^2 + y^2 + Dx + Ey + F = 0$
 $D + E + F = ?$

- A) 8 B) 6 C) 4 D) 2 E) 0

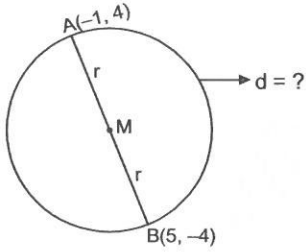


7.



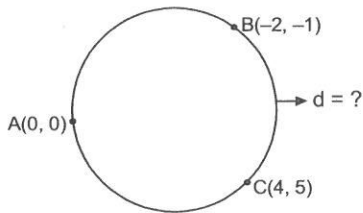
- A) $x^2 + y^2 - 2x - 10y - 39 = 0$ B) $x^2 + y^2 - 2x + 10y + 25 = 0$
C) $x^2 + y^2 - 2x + 10y - 28 = 0$ D) $x^2 + y^2 - 2x + 10y - 39 = 0$
E) $x^2 + y^2 - 2x + 10y + 91 = 0$

8.



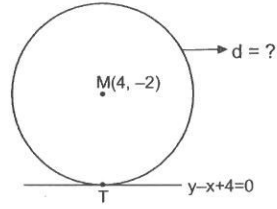
- A) $(x - 2)^2 + y^2 = 25$
B) $x^2 + (y - 2)^2 = 25$
C) $(x - 2)^2 + y^2 = 5$
D) $x^2 + (y - 2)^2 = 5$
E) $(x - 3)^2 + (y - 2)^2 = 25$

9.



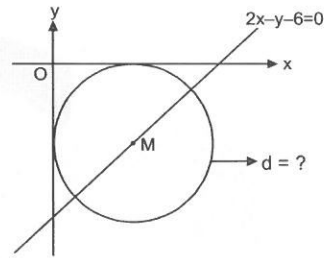
- A) $x^2 + y^2 + 8x + 9y - 14 = 0$
B) $x^2 + y^2 + 11x - 17y = 0$
C) $x^2 + y^2 - 11x - 8y + 17 = 0$
D) $x^2 + y^2 - 17y + 11x = 0$
E) $x^2 + y^2 + 8x + 9y + 22 = 0$

10.



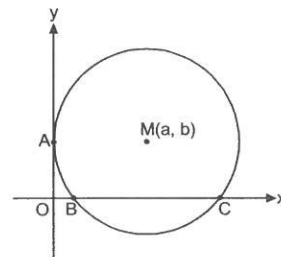
- A) $(x - 4)^2 + (y + 2)^2 = \sqrt{2}$ B) $(x - 4)^2 + (y + 2)^2 = 4$
C) $(x - 4)^2 + (y + 2)^2 = 2$ D) $(x + 4)^2 + (y - 2)^2 = 2$
E) $(x + 4)^2 + (y - 2)^2 = 4$

11.



- A) $(x - 1)^2 + (y + 1)^2 = 1$
B) $(x - 2)^2 + (y + 1)^2 = 2$
C) $(x - 2)^2 + (y - 2)^2 = 4$
D) $(x - 2)^2 + (y + 2)^2 = 2$
E) $(x - 2)^2 + (y + 2)^2 = 4$

12.



B(2, 0)
C(8, 0)
M(a, b)

a + b = ?

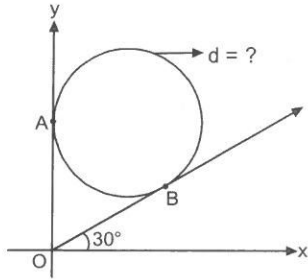
- A) 11 B) 10 C) 9 D) 8 E) 7

Cevap Anahtarı – Answer Sheet

1.B	2.C	3.E	4.A	5.C	6.D
7.D	8.A	9.B	10.C	11.E	12.C



1.

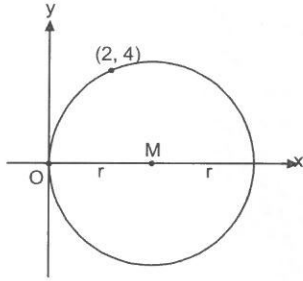


A(0, 3√3)

d = ?

- A) $(x-3)^2 + (y-3\sqrt{3})^2 = 9$
 B) $(x-3)^2 + (y-3\sqrt{3})^2 = 3$
 C) $(x-3)^2 + (y-6)^2 = 3\sqrt{3}$
 D) $(x+3)^2 + (y-6)^2 = 9$
 E) $(x-3\sqrt{3})^2 + (y-3)^2 = 9$

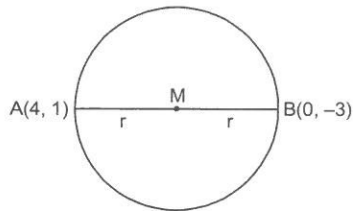
2.



r = ?

- A) 3 B) 5 C) 7 D) 8 E) 10

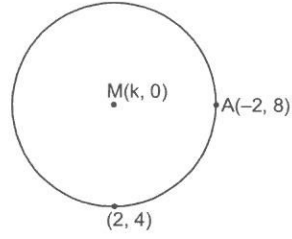
3.



M(a, b) = ?
r = ?

- A) M(2, -1) B) M(2, 0) C) M(-2, 1)
 r = 2 r = 2 r = 2√2
 D) M(2, -1) E) M(2, 1)
 r = 2√2 r = 4√2

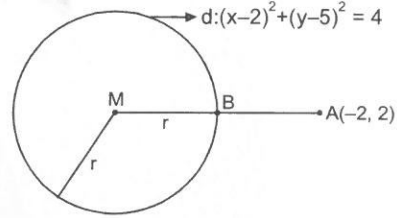
4.



k = ?

- A) 4 B) 0 C) -6 D) -8 E) -12

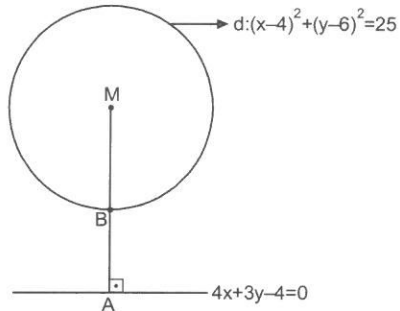
5.



|AB| = ?

- A) 1 B) 2 C) 3 D) 4 E) 5

6.

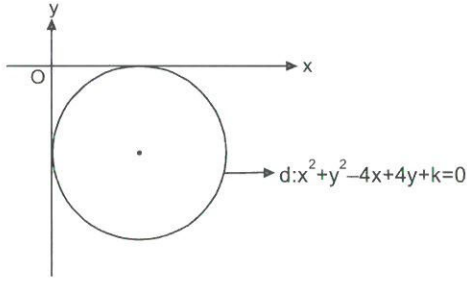


|AB| = ?

- A) 3 B) 5/2 C) 2 D) 3/2 E) 1

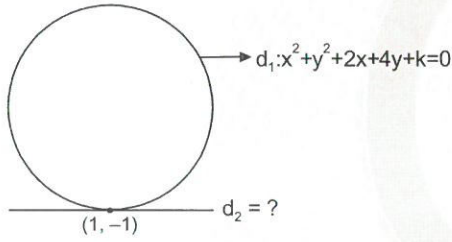


7.

 $k = ?$

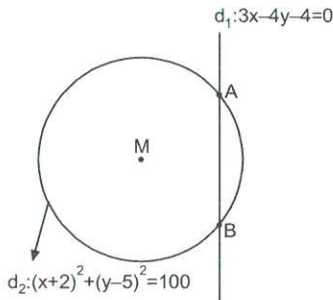
- A) 4 B) 5 C) 6 D) 7 E) 8

8.

 $d_2 = ?$

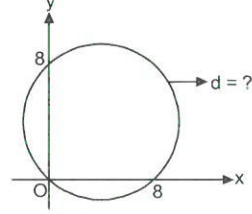
- A) $2y + x + 1 = 0$ B) $y + 2x - 1 = 0$
C) $y + 2x - 3 = 0$ D) $y - 2x + 1 = 0$
E) $y - x + 2 = 0$

9.

 $|AB| = ?$

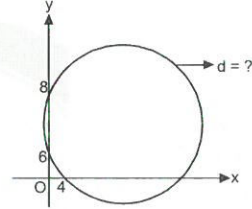
- A) 12 B) 14 C) 16 D) 18 E) 20

10.

 $|AB| = ?$

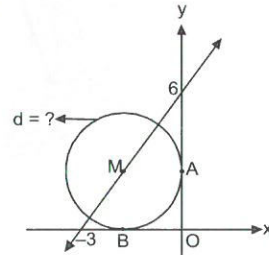
- A) $(x+4)^2 + (y-4)^2 = 16$ B) $(x-4)^2 + (y-4)^2 = 32$
C) $(x+4)^2 + (y-4)^2 = 64$ D) $(x-4)^2 + (y+4)^2 = 32$
E) $(x-4)^2 + (y-4)^2 = 36$

11.

 $d = ?$

- A) $(x-8)^2 + (y-7)^2 = 64$ B) $(x-8)^2 + (y-7)^2 = 65$
C) $(x-7)^2 + (y-8)^2 = 64$ D) $(x+8)^2 + (y+7)^2 = 65$
E) $(x-8)^2 + (y+7)^2 = 64$

12.

 $d = ?$

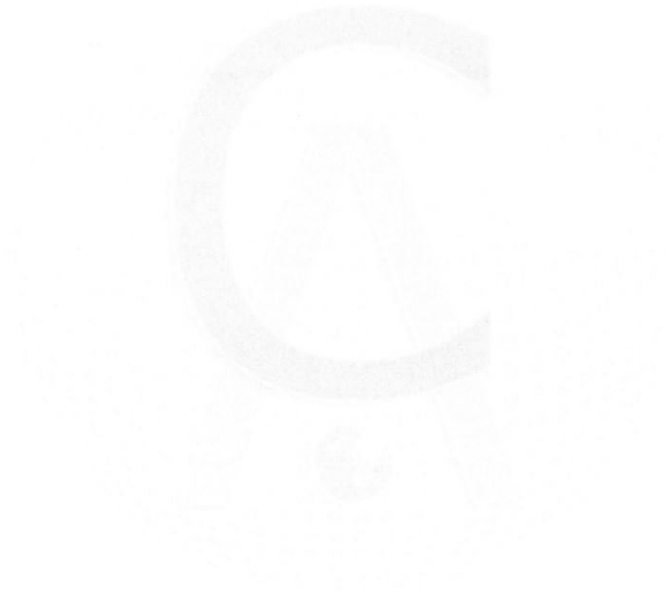
- A) $(x+2)^2 + (y-2)^2 = 9$ B) $(x+2)^2 + (y+2)^2 = 9$
C) $(x-2)^2 + (y-2)^2 = 16$ D) $(x+2)^2 + (y-2)^2 = 4$
E) $(x+2)^2 + (y-2)^2 = 2$

Cevap Anahtarı – Answer Sheet

1.B	2.B	3.D	4.C	5.C	6.E
7.A	8.B	9.C	10.B	11.B	12.D

21. BÖLÜM

VEKTÖRLER







1. $A(-1, 2)$

$B(-4, -2)$

$|\overline{AB}| = ?$

- A) 3 B)
- $\sqrt{10}$
- C)
- $3\sqrt{2}$
- D) 5 E)
- $2\sqrt{7}$

2. $A(-4, 1)$

$B(1, -3)$

$\overline{AB} = ?$

- A) (5, -4) B) (5, 4) C) (-5, 4)
-
- D) (-5, -4) E) (-4, 5)

3. $A(k, -5)$

$B(3, m)$

$\overline{BA} = (-4, 2)$

$k \cdot m = ?$

- A) -7 B) -6 C) 0 D) 6 E) 7

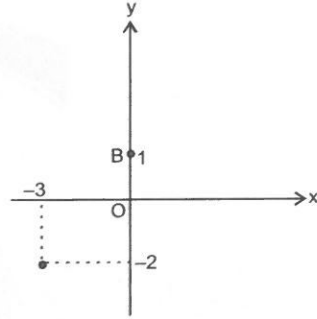
4. $\overline{AB} = (5, 3)$

$\overline{A} = (3, 1)$

$|\overline{B}| = ?$

- A) 10 B)
- $4\sqrt{5}$
- C)
- $6\sqrt{2}$
- D) 8 E)
- $2\sqrt{14}$

5.



$|\overline{BA}| = ?$

- A) 3 B) 4 C)
- $3\sqrt{2}$
- D) 5 E)
- $5\sqrt{2}$

6. $\overline{BA} = 3\overline{e_1} - 2\overline{e_2}$

$\overline{B} = \overline{e_1} + 3\overline{e_2}$

$\overline{A} = ?$

- A)
- $-2\overline{e_1} + 5\overline{e_2}$
- B)
- $2\overline{e_1} + 5\overline{e_2}$
- C)
- $-4\overline{e_1} + \overline{e_2}$
-
- D)
- $4\overline{e_1} + \overline{e_2}$
- E)
- $2\overline{e_1} - 5\overline{e_2}$



7. $\vec{A} = (a-1, b+2)$

$\vec{B} = (a+1, b-1)$

$\vec{A} = 2\vec{B}$

$a+b = ?$

- A) -7 B) -4 C) -1 D) 1 E) 4

8. $\vec{A} = (6, 2)$

$\vec{B} = (3, 1)$

$|\vec{A} - \vec{B}| = ?$

- A) 3 B)
- $\sqrt{10}$
- C)
- $2\sqrt{3}$
- D) 4 E)
- $3\sqrt{2}$

9. $\vec{A} - \vec{B} = (0, 2)$

$\vec{A} + 2\vec{B} = (-3, 5)$

$\vec{A} = ?$

- A) (-1, 3) B) (1, 2) C) (-1, 3)
-
- D) (1, 3) E) (2, 3)

10. $\vec{A} + 2\vec{B} = (2, -3)$

$\vec{A} + 3\vec{B} = (3, 1)$

$\vec{A} = ?$

- A) (0, -11) B) (4, 7) C) (1, 4)
-
- D) (4, 1) E) (0, 4)

11. $\vec{A}(a, 3)$

$\vec{B}(3, a)$

$|\vec{AB}| = 4\sqrt{2}$ br

$a \in \mathbb{Z}^+$

$a = ?$

- A) 4 B) 5 C) 6 D) 7 E) 8

12. $\vec{A} = 5\vec{e}_1 - 2\vec{e}_2$

$\vec{B} = \vec{e}_1 - \vec{e}_2$

$|\vec{A} + \vec{B}| = ?$

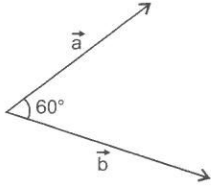
- A) 6 B)
- $3\sqrt{5}$
- C)
- $4\sqrt{3}$
- D) 7 E)
- $5\sqrt{2}$

Cevap Anahtarı – Answer Sheet

1.D	2.A	3.E	4.B	5.C	6.D
7.D	8.B	9.C	10.A	11.D	12.B



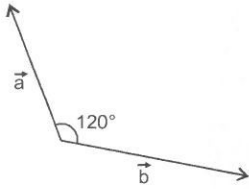
1.



$$\begin{aligned} |\vec{a}| &= 4br \\ |\vec{b}| &= 6br \\ |\vec{a} - \vec{b}| &= ?br \end{aligned}$$

- A) $2\sqrt{6}$ B) $2\sqrt{7}$ C) $4\sqrt{2}$ D) 6 E) $2\sqrt{10}$

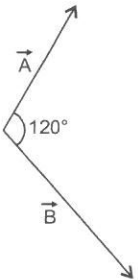
2.



$$\begin{aligned} |\vec{a}| &= 3br \\ |\vec{b}| &= 4br \\ |\vec{a} - \vec{b}| &= ?br \end{aligned}$$

- A) 5 B) 6 C) $\sqrt{37}$ D) $\sqrt{39}$ E) $\sqrt{42}$

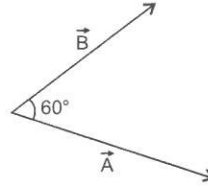
3.



$$\begin{aligned} |\vec{A}| &= 2\sqrt{3}br \\ |\vec{B}| &= \sqrt{3}br \\ |\vec{A} + \vec{B}| &= ?br \end{aligned}$$

- A) 3 B) $2\sqrt{3}$ C) $\sqrt{15}$ D) $3\sqrt{2}$ E) 6

4.



$$\begin{aligned} |\vec{A}| &= 4br \\ |\vec{A} - \vec{B}| &= 4br \\ |\vec{B}| &= ?br \end{aligned}$$

- A) $4\sqrt{2}$ B) 5 C) $2\sqrt{5}$ D) $3\sqrt{2}$ E) 4

5. $|\vec{A} + \vec{B}| = 2\sqrt{13}br$

$$|\vec{A}| = 3br$$

$$|\vec{B}| = 5br$$

$$|\vec{A} - \vec{B}| = ?br$$

- A) $4\sqrt{3}$ B) $2\sqrt{7}$ C) $\sqrt{17}$ D) 4 E) $\sqrt{13}$

6. $|\vec{A} - \vec{B}| = \sqrt{31}br$

$$|\vec{A}| = 4br$$

$$|\vec{B}| = 2br$$

$$|\vec{A} + \vec{B}| = ?$$

- A) $\sqrt{7}$ B) 3 C) $2\sqrt{3}$ D) 4 E) $3\sqrt{2}$



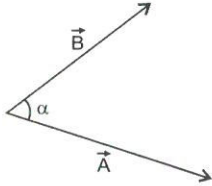
7. $\vec{A} + \vec{B} = (1, -3)$

$|\vec{A}|^2 = |\vec{B}|^2 = 2$

$\vec{A} \cdot \vec{B} = ?$

- A)
- $2\sqrt{3}$
- B) 3 C) 4 D)
- $4\sqrt{2}$
- E) 5

8.



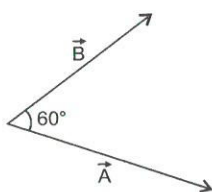
$\vec{A} = [1, -3]$

$\vec{B} = [-1, -2]$

$\alpha = ?$

- A) 75 B) 60 C) 45 D) 30 E) 15

9.



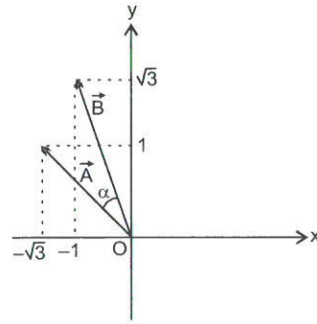
$|\vec{A}| = 4$ br

$|\vec{B}| = 3$ br

$(\vec{A} - \vec{B}) \cdot (2\vec{A} + 3\vec{B}) = ?$

- A) 11 B) 12 C) 13 D) 14 E) 15

10.



$\alpha = ?$

- A) 75 B) 60 C) 45 D) 30 E) 15

11. $\vec{A} = (1, -2)$

$\vec{B} = (3, x)$

$\vec{C} = (1, 2)$

$\vec{AB} \parallel \vec{C}$

$x = ?$

- A) 3 B) 2 C) -1 D) -2 E) -3

12. $\vec{A} = (2, 1)$

$\vec{B} = (1, -1)$

$\vec{X} = (-1, k)$

$\vec{AB} \parallel \vec{X}$

$k = ?$

- A) 2 B) 1 C) 0 D) -1 E) -2

Cevap Anahtarı – Answer Sheet

1.B	2.C	3.A	4.E	5.D	6.B
7.C	8.C	9.A	10.D	11.B	12.E



1. $\vec{A} = (1, 2)$
 $\vec{B} = (-1, 1)$
 $\vec{C} = (2, -3)$
 $\vec{D} = (x, 2)$
 $\vec{AB} \parallel \vec{CD}$
 $x = ?$

- A) 16 B) 12 C) 8 D) -12 E) -16

2. $\vec{A} = (k, 2)$
 $\vec{B} = (2, -3)$
 $\vec{A} \perp \vec{B}$
 $k = ?$

- A) -2 B) -1 C) 0 D) 2 E) 3

3. A(1, 2)
B(3, 1)
C(a, -1)
D(5, 7)
 $\vec{AB} \perp \vec{CD}$
 $a = ?$

- A) -2 B) -1 C) 0 D) 1 E) 2

4. $\vec{A} = (x, 2, -1)$
 $\vec{B} = (1, 0, 3)$
 $\vec{A} \perp \vec{B}$
 $x = ?$

- A) 5 B) 4 C) 3 D) 2 E) 1

5. $\vec{A} = (2, x-2, 3)$
 $\vec{B} = (4, -2, y+1)$
 $\vec{A} \parallel \vec{B}$
 $x \cdot y = ?$

- A) 5 B) 4 C) 3 D) -2 E) -1

6. $\vec{A} = (-3, 3, \sqrt{7})$
 $|\vec{A}| = ?$

- A) 8 B) 7 C) 6 D) 5 E) 4



VEKTÖRLER

Test – 3

7. $\vec{A} = (2, -1, 3)$

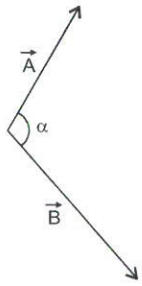
$\vec{B} = (-3, k, 4)$

$\vec{A} \cdot \vec{B} = 6$

$k = ?$

- A) -1 B) 0 C) 1 D) 2 E) 3

8.



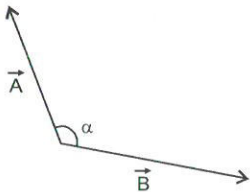
$\vec{A} = (1, 2, -1)$

$\vec{B} = (1, -1, 2)$

$\alpha = ?$

- A) 30 B) 45 C) 60 D) 120 E) 150

9.



$\vec{A} = (1, m, 4)$

$\vec{B} = (3, 0, -3)$

$\alpha = 120^\circ$

$m = ?$

- A) -1 B) -2 C) -3 D) -4 E) -5

10. $|\vec{A}| = 3$ br

$|\vec{B}| = 2$ br

$(2\vec{A} + \vec{B}) \cdot (\vec{A} - 2\vec{B}) = 1$

$\langle \vec{A}, \vec{B} \rangle = ?$

- A) 1 B) 2 C) 3 D) 4 E) 5

11. $|\vec{A} + \vec{B}| = 6$

$|\vec{A} - \vec{B}| = 4$

$\langle \vec{A}, \vec{B} \rangle = ?$

- A) -5 B) -2 C) 0 D) 2 E) 5

12. $\vec{A} + \vec{B} = (3, -1)$

$|\vec{A}|^2 + |\vec{B}|^2 = 6$

$\langle \vec{A}, \vec{B} \rangle = ?$

- A) 1 B) 2 C) 3 D) 4 E) 5

Cevap Anahtarı – Answer Sheet

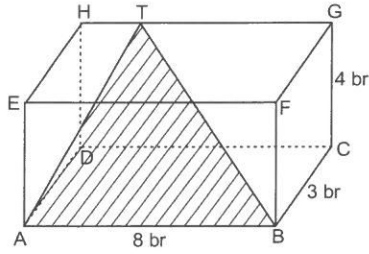
1.B	2.E	3.D	4.C	5.A	6.D
7.B	8.D	9.A	10.C	11.E	12.B

22. BÖLÜM

KATI CİSİMLER



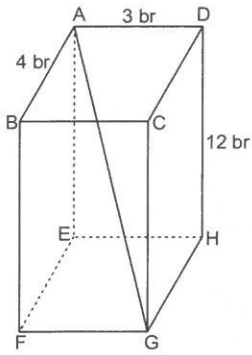
1.



$$s(ABT) = ? \text{ cm}^2$$

- A) 12 B) 15 C) 18 D) 20 E) 24

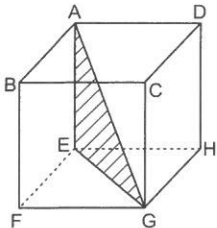
2.



$$|AG| = ? \text{ cm}$$

- A) 9 B) 12 C) 13 D) 15 E) 17

3.



$$|DC| = 4\sqrt{2} \text{ br}$$

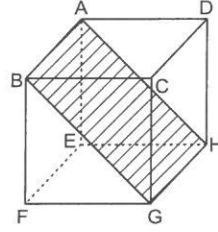
$$|AG| = 17 \text{ br}$$

$$|AD| = 4\sqrt{2} \text{ br}$$

$$s(AEG) = ? \text{ br}^2$$

- A) 15 B) 30 C) 45 D) 60 E) 75

4.

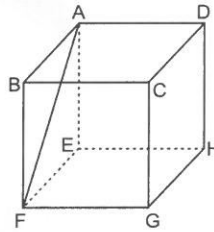


$$|FG| = |GH| = |GC| = 6 \text{ br}$$

$$s(ABGH) = ? \text{ br}^2$$

- A) 72 B) $36\sqrt{2}$ C) 36 D) $16\sqrt{2}$ E) 16

5.



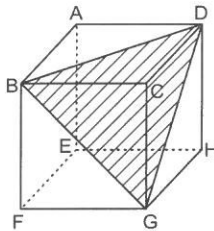
$$|BC| = |CD| = |GC|$$

$$|AF| = 4\sqrt{2} \text{ br}$$

$$V = ? \text{ br}^3$$

- A) 64 B) 125 C) 216 D) 256 E) 324

6.



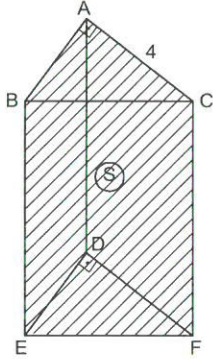
$$|BC| = |CD| = |GC| = 4 \text{ br}$$

$$s(BGD) = ? \text{ br}^2$$

- A) $4\sqrt{3}$ B) $6\sqrt{2}$ C) $6\sqrt{3}$ D) $8\sqrt{2}$ E) $8\sqrt{3}$



7.

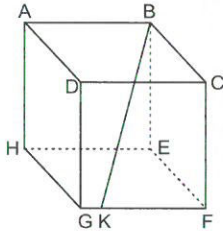


$$\begin{aligned} |AC| &= 4 \text{ br} \\ |ED| &= 3 \text{ br} \\ |BE| &= 6 \text{ br} \end{aligned}$$

$$s(ABCDEF) = ? \text{ br}^2$$

- A) 84 B) 80 C) 76 D) 72 E) 64

8.

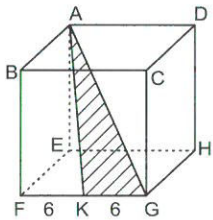


$$\begin{aligned} |GK| &= 1 \text{ br} \\ |KF| &= 3 \text{ br} \\ |EF| &= |GF| \\ |AH| &= 5 \text{ br} \\ |BK| &= x \text{ br} \end{aligned}$$

$$x = ?$$

- A) 5 B) $5\sqrt{2}$ C) 8 D) $8\sqrt{2}$ E) 10

9.

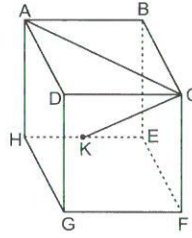


$$\begin{aligned} |FE| &= |FK| = |KG| = 6 \text{ br} \\ |DH| &= 8 \text{ br} \\ |GH| &= 6 \text{ br} \end{aligned}$$

$$s(ABCD) = ? \text{ br}^2$$

- A) 20 B) 24 C) 30 D) 36 E) 42

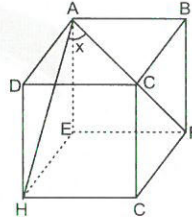
10.



$$\begin{aligned} |DC| &= |CF| = |BC| \\ |HK| &= |KE| \\ \frac{|CK|}{|AC|} &= ? \end{aligned}$$

- A) $\frac{\sqrt{3}}{5}$ B) $\frac{2\sqrt{2}}{3}$ C) $\frac{2\sqrt{3}}{3}$ D) $\frac{3\sqrt{3}}{4}$ E) $\frac{3\sqrt{2}}{4}$

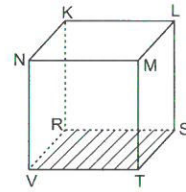
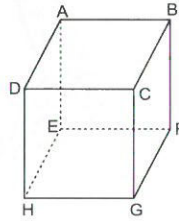
11.



$$\begin{aligned} m(\widehat{HAF}) &= x^\circ \\ \tan x &= ? \end{aligned}$$

- A) $\frac{1}{2}$ B) $\frac{\sqrt{3}}{2}$ C) 1 D) $\sqrt{3}$ E) $\frac{\sqrt{3}}{3}$

12.



$$\begin{aligned} |AD| &= |DH| = |DC| = 6 \text{ br} \\ |KR| &= 18 \text{ br} \\ V_1 &= V_2 \end{aligned}$$

$$s(VRST) = ? \text{ br}^2$$

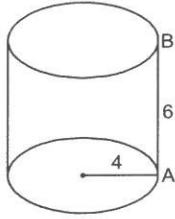
- A) 12 B) 15 C) 18 D) 21 E) 24

Cevap Anahtarı – Answer Sheet

1.D	2.C	3.D	4.B	5.A	6.E
7.A	8.B	9.C	10.E	11.D	12.A



1.



$|AB| = 6 \text{ br}$

$|OA| = 4 \text{ br}$

$V = ? \text{ br}^3$

A) 100π

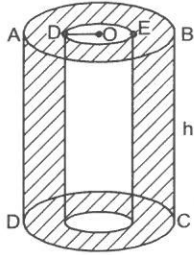
B) 96π

C) 92π

D) 84π

E) 80π

2.



$|OD| = r_1 = 4 \text{ br}$

$|OA| = r_2 = 6 \text{ br}$

$r_1 = 4 \text{ br}$

$r_2 = 6 \text{ br}$

$V_2 - V_1 = (160\pi) \text{ br}^3$

$|BC| = h = ?$

A) 12

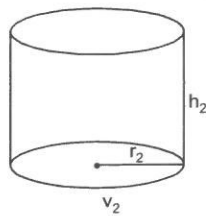
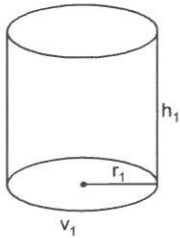
B) 11

C) 10

D) 9

E) 8

3.



$r_1 = 2 \text{ br}$

$r_2 = 3 \text{ br}$

$V_1 = V_2$

$\frac{h_1}{h_2} = ?$

A) $\frac{27}{8}$

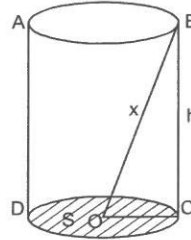
B) $\frac{9}{4}$

C) 1

D) $\frac{3}{2}$

E) $\frac{\sqrt{3}}{2}$

4.



$S = 9\pi \text{ br}^2$

$V = 36\pi \text{ br}^3$

$|OB| = x \text{ br}$

$x = ?$

A) $3\sqrt{2}$

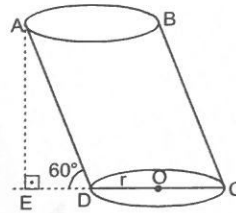
B) $4\sqrt{2}$

C) 5

D) $5\sqrt{2}$

E) 10

5.



$r = 2 \text{ br}$

$m(\widehat{ADE}) = 60^\circ$

$|AD| = 8\sqrt{3} \text{ br}$

$V = ? \text{ br}^3$

A) 30π

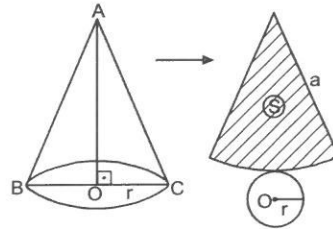
B) 36π

C) 42π

D) 48π

E) 56π

6.



$V = 9\sqrt{3}\pi \text{ br}^3$

$r = 3 \text{ br}$

$S = ? \text{ br}^2$

A) 9π

B) 12π

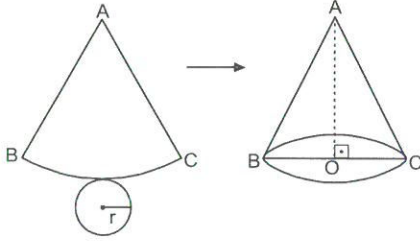
C) 15π

D) 18π

E) 24π



7.



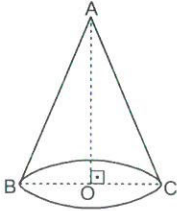
$|AC| = 13 \text{ br}$

$|\widehat{BC}| = 10\pi$

$V = ? \text{ br}^3$

- A)
- 100π
- B)
- 96π
- C)
- 92π
- D)
- 88π
- E)
- 84π

8.



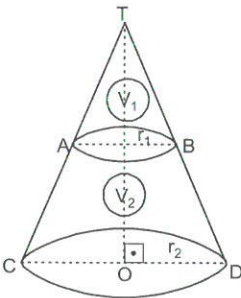
$|AC| = 10 \text{ br}$

$|\widehat{BC}| = 12 \text{ br}$

$V = ? \text{ br}^3$

- A)
- 100π
- B)
- 96π
- C)
- 92π
- D)
- 88π
- E)
- 84π

9.

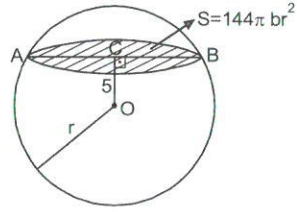


$\frac{|TB|}{|BD|} = 2$

$\frac{V_1}{V_2} = ?$

- A)
- $\frac{4}{9}$
- B)
- $\frac{8}{15}$
- C)
- $\frac{4}{19}$
- D)
- $\frac{8}{19}$
- E)
- $\frac{8}{27}$

10.



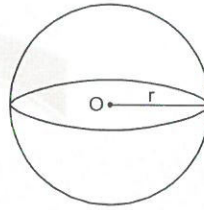
$S = 144\pi \text{ br}^2$

$|OC| = 5 \text{ br}$

$r = ? \text{ br}$

- A) 8 B) 10 C) 13 D) 15 E) 17

11.



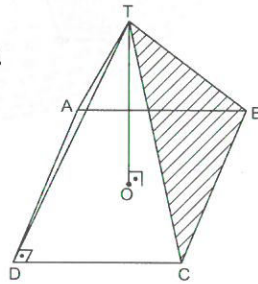
$S = ? \text{ br}^2$

$V = ? \text{ br}^3$

$S = V \Rightarrow r = ? \text{ br}$

- A) 2 B) 3 C) 4 D) 5 E) 6

12.



$|DC| = 8 \text{ br}$

$|TO| = 3 \text{ br}$

$|AB| = |BC| = |CD| = |DA|$

$s(TBC) = ? \text{ br}^2$

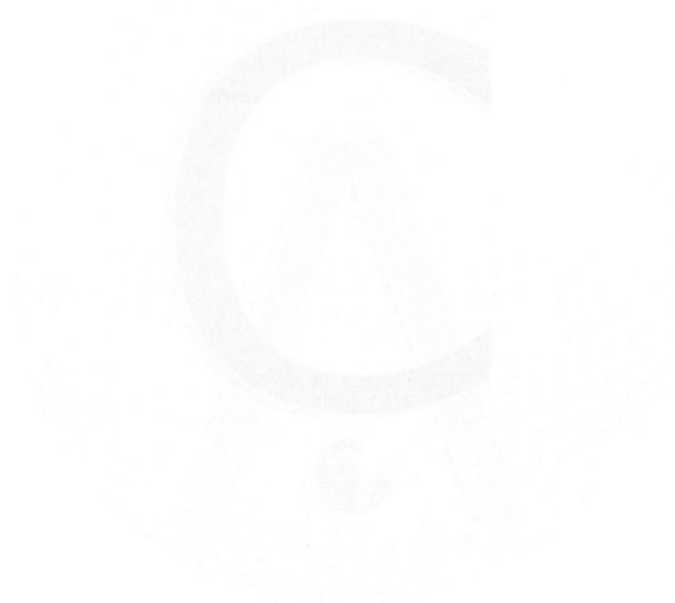
- A) 36 B) 32 C) 28 D) 24 E) 20

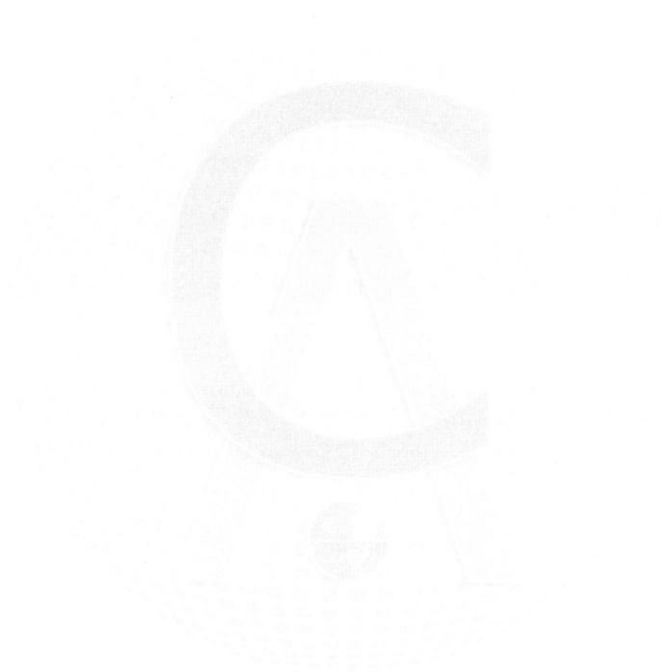
Cevap Anahtarı – Answer Sheet

1.B	2.E	3.B	4.C	5.D	6.D
7.A	8.B	9.D	10.C	11.B	12.E

23. BÖLÜM

DENEME SINAVLARI

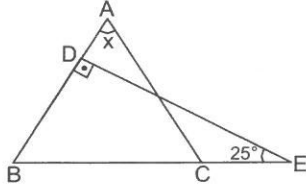






DENEME SINAVI – 1

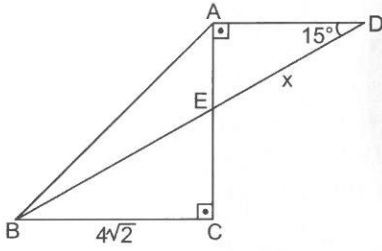
1.



$$\begin{aligned}[AB] &\perp [ED] \\ m(\widehat{DEB}) &= 25^\circ \\ |AB| &= |AC| \\ x &= ?^\circ\end{aligned}$$

- A) 30 B) 40 C) 50 D) 60 E) 70

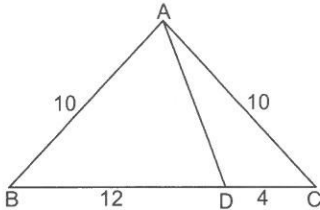
2.



$$|AC| = |BC| \Rightarrow |ED| = x = ?$$

- A) 9 B) 12 C) 16 D) 18 E) 20

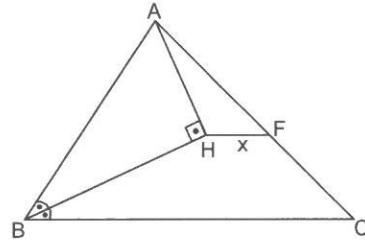
3.



$$\Rightarrow |AD| = ?$$

- A) $\sqrt{13}$ B) 4 C) 6 D) $2\sqrt{6}$ E) $2\sqrt{13}$

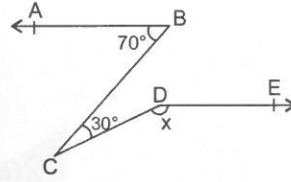
4.



$$\begin{aligned}[BH] &\perp [AH] \\ |BC| - |AB| &= 6\sqrt{2} \\ [HF] &\parallel [BC] \\ |HF| &= x = ?\end{aligned}$$

- A) 3 B) $3\sqrt{2}$ C) 4 D) 6 E) $6\sqrt{2}$

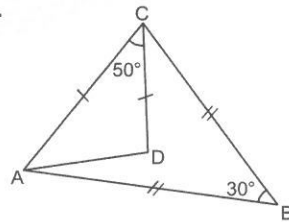
5.



$$\begin{aligned}[BA] &\parallel [DE] \\ m(\widehat{ABC}) &= 70^\circ \\ m(\widehat{DCB}) &= 30^\circ \\ x &= ?\end{aligned}$$

- A) 120 B) 130 C) 140 D) 150 E) 160

6.



$$\begin{aligned}|AB| &= |BC| \\ |AC| &= |CD| \\ m(\widehat{ACD}) &= 50^\circ \\ m(\widehat{CBA}) &= 30^\circ\end{aligned}$$

$$m(\widehat{BAD}) + m(\widehat{ADC}) = ?$$

- A) 55 B) 65 C) 75 D) 85 E) 95

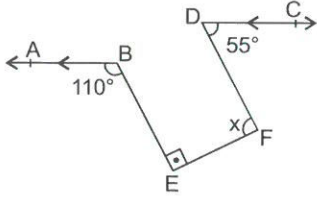
Cevap Anahtarı – Answer Sheet

1.C	2.C	3.E	4.B	5.C	6.C
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DENEME SINAVI – 2

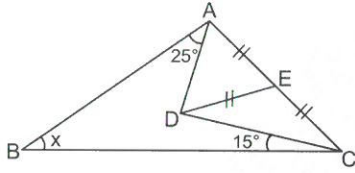
1.



$[BE] \perp [EF]$
 $[BA] \parallel [DC]$
 $m(\widehat{ABE}) = 110^\circ$
 $m(\widehat{CDF}) = 55^\circ$
 $x = ?^\circ$

- A) 60 B) 65 C) 70 D) 75 E) 85

2.



$$|AE| = |EC| = |DE|$$

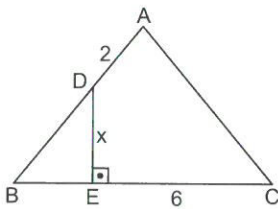
$$m(\widehat{BAD}) = 25^\circ$$

$$m(\widehat{BCD}) = 15^\circ$$

$$x = ?^\circ$$

- A) 30 B) 35 C) 40 D) 45 E) 50

3.



$$|AB| = |BC| = |AC|, [DE] \perp [BC]$$

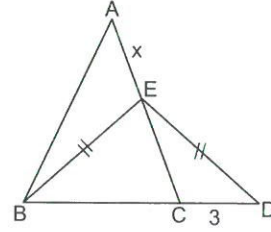
$$|AD| = 2$$

$$|EC| = 6$$

$$|DE| = x = ?$$

- A) 2 B) $2\sqrt{3}$ C) 3 D) 4 E) $4\sqrt{3}$

4.



$$|AB| = |BC| = |AC|$$

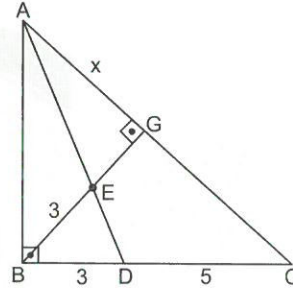
$$|EB| = |DE|$$

$$|CD| = 3$$

$$|AE| = x = ?$$

- A) $\sqrt{3}$ B) 3 C) $3\sqrt{3}$ D) 6 E) $6\sqrt{3}$

5.



$$|BE| = |BD| = 3$$

$$|DC| = 5$$

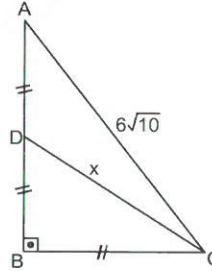
$$[AB] \perp [BC]$$

$$[BG] \perp [AC]$$

$$\Rightarrow |AG| = x = ?$$

- A) 2,5 B) 3,6 C) 4,2 D) 4,8 E) 6,4

6.



$$[AB] \perp [BC]$$

$$|AD| = |DB| = |BC|$$

$$|AC| = 6\sqrt{10} \text{ br}$$

$$|DC| = x \text{ br}$$

$$x = ? \text{ br}$$

- A) 6 B) 8 C) 10 D) 12 E) 14

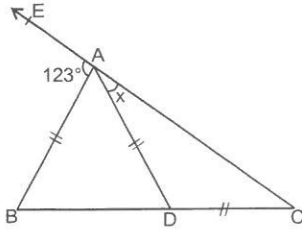
Cevap Anahtarı – Answer Sheet

1.D	2.E	3.E	4.B	5.B	6.D
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DENEME SINAVI – 3

1.



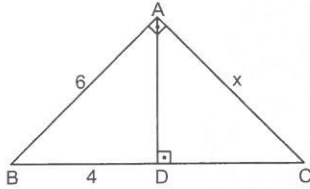
$$|AB| = |AD| = |DC|$$

$$m(\widehat{EAB}) = 123^\circ$$

$$m(\widehat{CAD}) = x = ?$$

- A) 28 B) 31 C) 38 D) 41 E) 43

2.



$$[BA] \perp [AC]$$

$$[AD] \perp [BC]$$

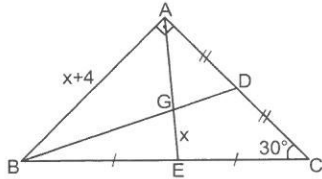
$$|AB| = 6$$

$$|BD| = 4$$

$$|AC| = x = ?$$

- A) 2 B) $3\sqrt{2}$ C) 4 D) 6 E) $3\sqrt{5}$

3.



$$[AB] \perp [AC]$$

$$m(\widehat{ACB}) = 30^\circ$$

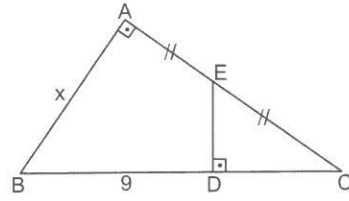
$$|GE| = x$$

$$|AB| = x + 4$$

$$|AE| = ?$$

- A) 6 B) 4 C) $2\sqrt{3}$ D) $2\sqrt{5}$ E) 2

4.



$$[AB] \perp [AC]$$

$$[ED] \perp [BC]$$

$$|AE| = |EC|$$

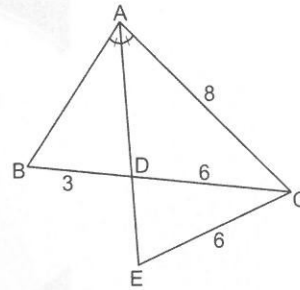
$$|BD| = 9$$

$$|DC| = 6$$

$$|AB| = x = ?$$

- A) $4\sqrt{5}$ B) 8 C) 6 D) $3\sqrt{5}$ E) $2\sqrt{5}$

5.



$$m(\widehat{BAE}) = m(\widehat{CAE})$$

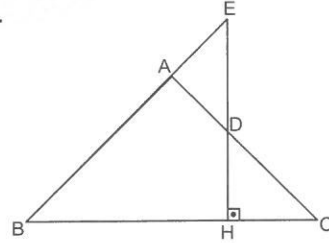
$$|AC| = 8, |BD| = 3$$

$$|DC| = |EC| = 6$$

$$|DE| = x = ?$$

- A) $\sqrt{7}$ B) 3 C) $\sqrt{14}$ D) $\sqrt{15}$ E) 4

6.



$$|AB| = |AC| = |BC|$$

$$[EH] \perp [BC]$$

$$|DC| = 4|AD|$$

$$|AB| = 10\sqrt{3} \text{ br}$$

$$|EH| = x \text{ br}$$

$$x = ? \text{ br}$$

- A) 10 B) 12 C) 14 D) 16 E) 18

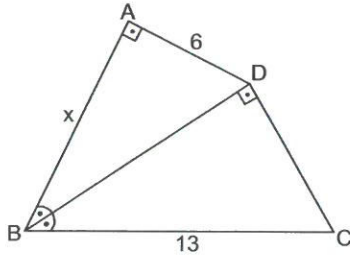
Cevap Anahtarı – Answer Sheet

1.D	2.E	3.A	4.D	5.C	6.E
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DENEME SINAVI – 4

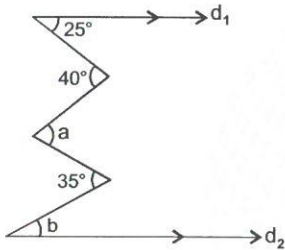
1.



$[AB] \perp [AD]$
 $[BD] \perp [DC]$
 $|AD| = 6$
 $|BC| = 13$
 $|AB| = x = ?$

- A) 6 B) 7 C) 8 D) 9 E) 10

2.



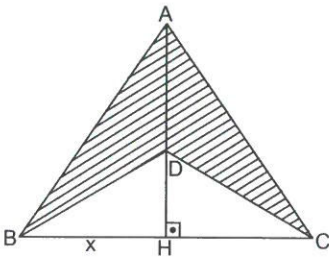
$d_1 \parallel d_2$

$a - b = 30^\circ$

$a = ?^\circ$

- A) 50 B) 40 C) 30 D) 20 E) 10

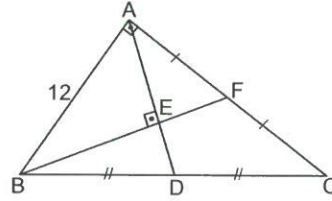
3.



$[AH] \perp [BC]$
 $S(\triangle ABD) = 45$
 $S(\triangle ACD) = 30$
 $|BC| = 20$
 $|BH| = x$
 $x = ?$

- A) 6 B) 8 C) 10 D) 12 E) 14

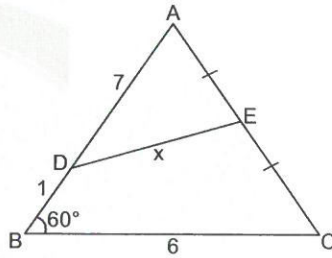
4.



$[AB] \perp [AC]$
 $[BF] \perp [AD]$
 $|AF| = |FC|$
 $|BD| = |DC|$
 $|AB| = 12$
 $|BC| = x = ?$

- A) $6\sqrt{3}$ B) $8\sqrt{3}$ C) $12\sqrt{3}$
D) $18\sqrt{3}$ E) $24\sqrt{3}$

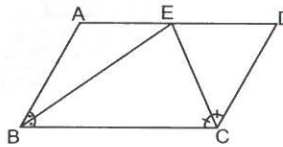
5.



$|BC| = 6$
 $|AD| = 7$
 $|DB| = 1$
 $|AE| = |EC|$
 $|DE| = x$
 $x = ?$

- A) 3 B) $3\sqrt{3}$ C) 4 D) $4\sqrt{3}$ E) 6

6.



$[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $m(\widehat{ABE}) = m(\widehat{ECB})$
 $m(\widehat{DCE}) = m(\widehat{ECB})$
 $|AD| = 30 \text{ br}$
 $|CE| = 18 \text{ br}$

$s(ABCD) = ? \text{ br}^2$

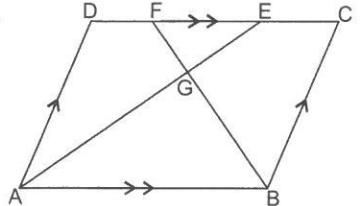
- A) 332 B) 352 C) 384 D) 416 E) 432

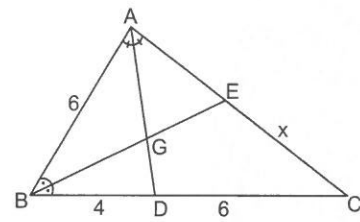
Cevap Anahtarı – Answer Sheet

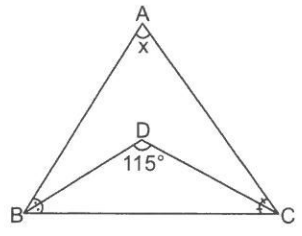
1.D	2.B	3.D	4.C	5.B	6.E
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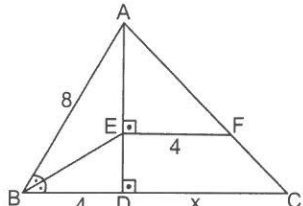


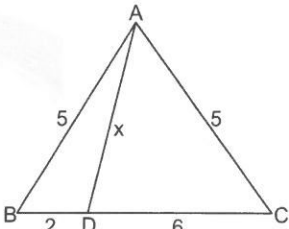
DENEME SINAVI – 5

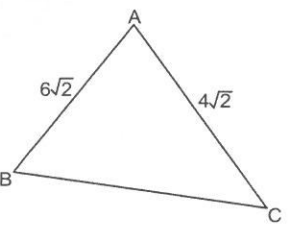
1.  $|AB| = 3|FE|$
 $A(\triangle FEG) = 9$
 $A(ABCD) = ?$
A) 172 B) 180 C) 192 D) 216 E) 240

2.  $|AB| = 6$
 $|BD| = 4$
 $|DC| = 6$
 $|EC| = x = ?$
A) $\frac{15}{4}$ B) $\frac{45}{8}$ C) $\frac{45}{4}$ D) $\frac{42}{7}$ E) 16

3.  $m(\widehat{BDC}) = 115^\circ$
 $m(\widehat{BAC}) = ?^\circ$
A) 40° B) 50° C) 60°
D) 65° E) 70°

4.  $|AB| = 8$
 $|BD| = 4$
 $|EF| = 4$
 $|DC| = x = ?$
A) 4 B) 6 C) 8 D) 9 E) 10

5.  $|AB| = 5$
 $|AC| = 5$
 $|BD| = 2$
 $|DC| = 6$
 $|AD| = x = ?$
A) $\sqrt{10}$ B) $2\sqrt{3}$ C) $\sqrt{13}$
D) 4 E) $3\sqrt{2}$

6.  $|AB| = 6\sqrt{2}$ br
 $|AC| = 4\sqrt{2}$ br
 $\max(s(\triangle ABC)) = ? \text{ br}^2$
A) 12 B) 18 C) 24 D) 30 E) 36

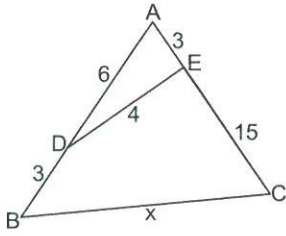
Cevap Anahtarı – Answer Sheet

1.D	2.B	3.B	4.B	5.C	6.C
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DENEME SINAVI – 6

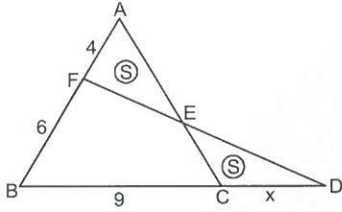
1.



$$\begin{aligned} |AD| &= 6 \\ |AE| &= 3 \\ |EC| &= 15 \\ |DB| &= 3 \\ |BC| &= x = ? \end{aligned}$$

- A) 8 B) 12 C) 14 D) 16 E) 18

2.

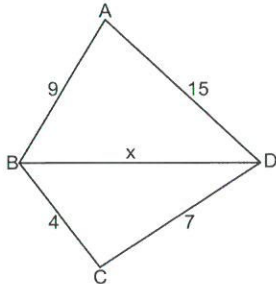


$$\angle AFE = \angle ECD$$

$$\begin{aligned} |AF| &= 4 \\ |FB| &= 6 \\ |BC| &= 9 \\ |CD| &= x = ? \end{aligned}$$

- A) 4 B) 5 C) 6 D) 7 E) 8

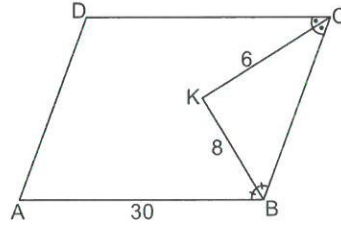
3.



$$\begin{aligned} |AB| &= 9 \\ |AD| &= 15 \\ |BC| &= 4 \\ |DC| &= 7 \\ |BD| &= x \in \mathbb{Z}^+ \\ \min(x) &= ? \end{aligned}$$

- A) 5 B) 6 C) 7 D) 8 E) 9

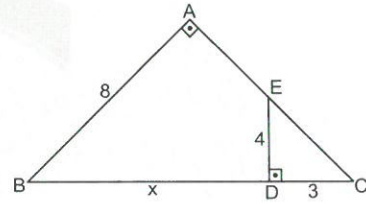
4.



$$\begin{aligned} AB &\parallel DC \\ AD &\parallel BC \\ |CK| &= 6 \\ |BK| &= 8 \\ |AB| &= 30 \\ A(ABCD) &= ? \end{aligned}$$

- A) 180 B) 224 C) 256 D) 288 E) 320

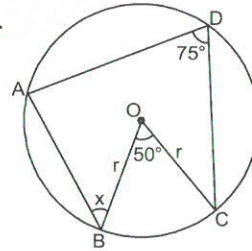
5.



$$\begin{aligned} |AB| &= 8 \\ |DE| &= 4 \\ |DC| &= 3 \\ |BD| &= x = ? \end{aligned}$$

- A) 7 B) $\frac{15}{2}$ C) 8
D) $\frac{17}{2}$ E) 9

6.



$$\begin{aligned} m(\widehat{ADC}) &= 75^\circ \\ m(\widehat{BOC}) &= 50^\circ \\ m(\widehat{ABO}) &= x^\circ \end{aligned}$$

$$x = ?^\circ$$

- A) 35 B) 40 C) 45 D) 50 E) 55

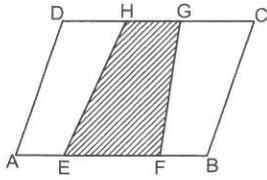
Cevap Anahtarı – Answer Sheet

1.B	2.C	3.C	4.D	5.A	6.B
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DENEME SINAVI – 7

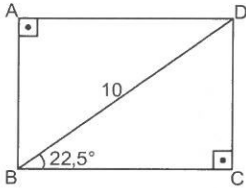
1.



$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $|AB| = 3|EF| = 5|GH|$
 $S(ABCD) = 60$
 $S(EFGH) = ?$

- A) 12 B) 16 C) 20 D) 24 E) 25

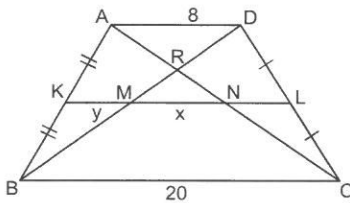
2.



$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $|BD| = 10$
 $S(ABCD) = ?$

- A) 10 B) $20\sqrt{2}$ C) $25\sqrt{2}$
D) $30\sqrt{2}$ E) $40\sqrt{2}$

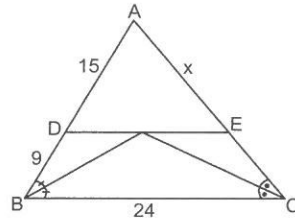
3.



$[AD] \parallel [BC]$
 $|KM| = y$
 $|MN| = x$
 $|AD| = 8$
 $|BC| = 20$
 $x^2 - y^2 = ?$

- A) 14 B) 16 C) 18 D) 20 E) 24

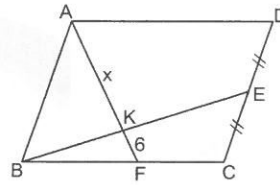
4.



$[DE] \parallel [BC]$
 $|AD| = 15$
 $|BD| = 9$
 $|BC| = 24$
 $|AE| = x = ?$

- A) 10 B) 12 C) 14 D) 15 E) 18

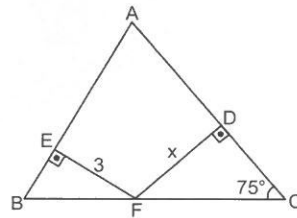
5.



$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $|DE| = |EC|$
 $2|BF| = 3|FC|$
 $|AK| = x = ?$

- A) 6 B) 12 C) 15 D) 18 E) 20

6.



$|AB| = |AC|$
 $[FE] \perp [AB]$
 $[FD] \perp [AC]$
 $m(\widehat{ACB}) = 75^\circ$
 $|AC| = 16\text{ br}$
 $|FD| = x\text{ br}$

$x = ?\text{ br}$

- A) 5 B) 6 C) 7 D) 8 E) 9

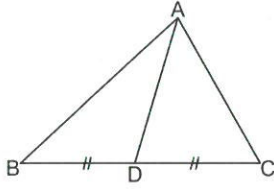
Cevap Anahtarı – Answer Sheet

1.B	2.C	3.D	4.A	5.E	6.D
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DENEME SINAVI – 8

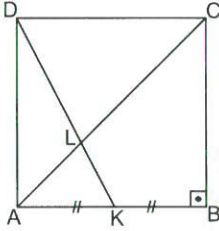
1.



$$\begin{aligned} |BD| &= |DC| \\ |BC| &= 2|AD| = 2|AC| \\ \frac{|BC|}{|AB|} &= ? \end{aligned}$$

- A) $3\sqrt{3}$ B) $2\sqrt{3}$ C) $\frac{3\sqrt{3}}{2}$
D) $\sqrt{3}$ E) $\frac{2\sqrt{3}}{3}$

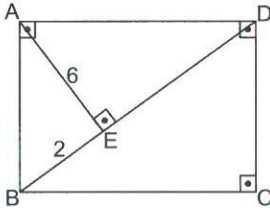
2.



$$\begin{aligned} |AB| &= |BC| \\ m(\hat{A}) &= m(\hat{B}) = 90^\circ \\ m(\hat{C}) &= m(\hat{D}) = 90^\circ \\ |KL| &= \frac{5}{2} \text{ cm} \\ |KA| &= |KB| \\ |AB| &= ? \text{ cm} \end{aligned}$$

- A) $\sqrt{5}$ B) $2\sqrt{5}$ C) $3\sqrt{5}$
D) $4\sqrt{5}$ E) $5\sqrt{5}$

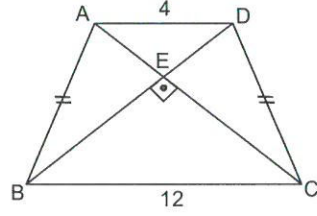
3.



$$\begin{aligned} m(\hat{A}) &= m(\hat{D}) = m(\hat{C}) = 90^\circ \\ [AE] &\perp [BD] \\ |AE| &= 6 \text{ cm} \\ |BE| &= 2 \text{ cm} \\ S(ABCD) &= ? \end{aligned}$$

- A) 60 B) 80 C) 90 D) 100 E) 120

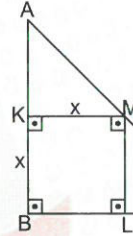
4.



$$\begin{aligned} [AD] &\parallel [BC] \\ [AC] &\perp [BD] \\ |AB| &= |DC| \\ |AD| &= 4 \text{ cm} \\ |BC| &= 12 \text{ cm} \\ S(ABCD) &= ? \end{aligned}$$

- A) 32 B) 42 C) 48 D) 64 E) 72

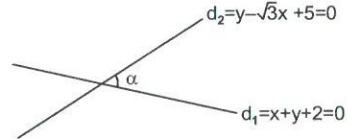
5.



$$\begin{aligned} m(\hat{K}) &= m(\hat{M}) = m(\hat{L}) = 90^\circ \\ |AB| &= 12 \text{ cm} \\ |BC| &= 6 \text{ cm} \\ |BK| &= |KM| = x \\ x &= ? \end{aligned}$$

- A) 5 B) 4 C) 3 D) 2 E) 1

6.



$$\begin{aligned} \alpha &< 90 \\ \alpha &= ? \end{aligned}$$

- A) 90 B) 75 C) 60 D) 45 E) 30

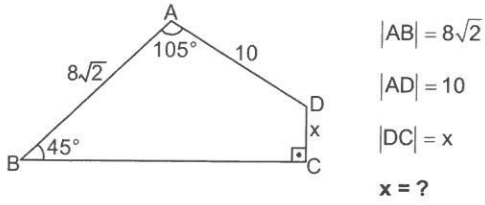
Cevap Anahtarı – Answer Sheet

1.E	2.C	3.E	4.D	5.B	6.B
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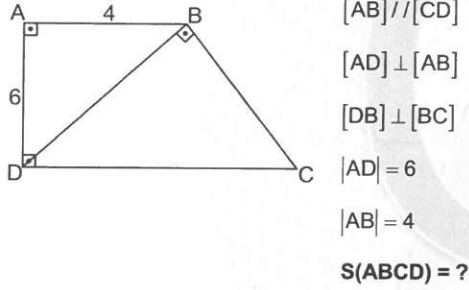
DENEME SINAVI – 9

1.



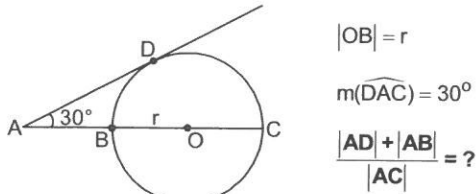
- A) 3 B) 4 C) $3\sqrt{2}$
D) 6 E) $8\sqrt{2}$

2.



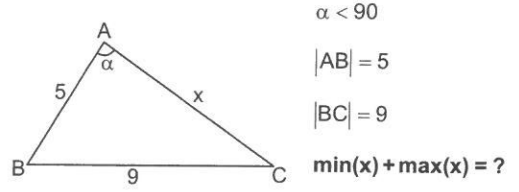
- A) 39 B) 46 C) 51 D) 56 E) 63

3.



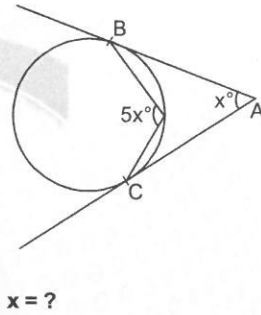
- A) $\frac{\sqrt{3}}{3}$ B) $\frac{\sqrt{3}+1}{3}$ C) $\sqrt{3}$
D) $\frac{\sqrt{3}-1}{3}$ E) $\frac{\sqrt{3}+1}{\sqrt{3}}$

4.



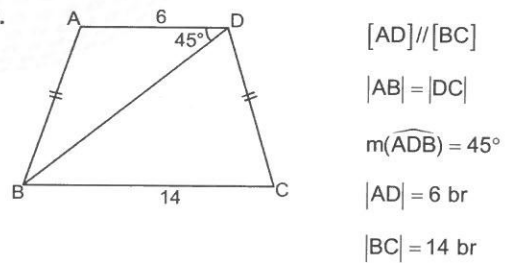
- A) 13 B) 15 C) 18 D) 20 E) 21

5.



- A) 10 B) 20 C) 25 D) 30 E) 45

6.



$$s(ABCD) = ? \text{ br}^2$$

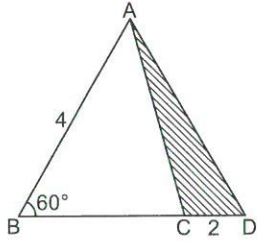
- A) 80 B) 84 C) 90 D) 96 E) 100

Cevap Anahtarı – Answer Sheet

1.A	2.C	3.B	4.E	5.B	6.E
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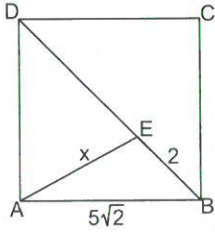
1.



$$\begin{aligned} |AB| &= 4 \\ |CD| &= 2 \\ m(\widehat{ABD}) &= 60^\circ \\ S(\triangle ACD) &= ? \end{aligned}$$

- A) $2\sqrt{3}$ B) $3\sqrt{3}$ C) $4\sqrt{3}$ D) 6 E) 8

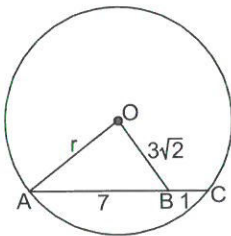
2.



$$\begin{aligned} |AB| &= |BC| = |CD| = |DA| \\ [AB] &\perp [BC] \\ [AD] &\perp [DC] \\ |AB| &= 5\sqrt{2} \\ |EB| &= 2 \\ |AE| &= x = ? \end{aligned}$$

- A) $2\sqrt{5}$ B) $\sqrt{34}$ C) 3
D) $\sqrt{17}$ E) 5

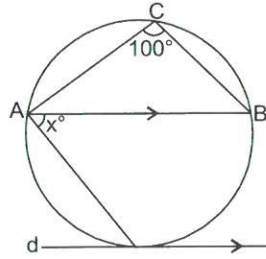
3.



$$\begin{aligned} |AB| &= 7 \\ |BC| &= 1 \\ |OB| &= 3\sqrt{2} \\ |OA| &= r = ? \end{aligned}$$

- A) $3\sqrt{2}$ B) 4 C) $4\sqrt{3}$ D) 5 E) $5\sqrt{2}$

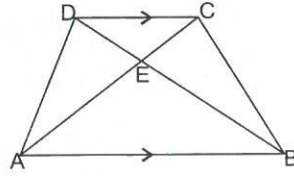
4.



$$\begin{aligned} [AB] &\parallel d \\ x^\circ &= ? \end{aligned}$$

- A) 25 B) 30 C) 40 D) 45 E) 50

5.



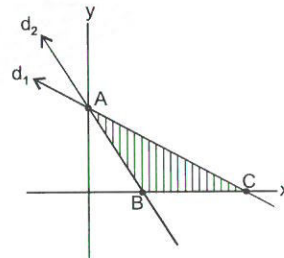
$$\frac{|DC|}{|AB|} = \frac{2}{3}$$

$$S(ABCD) = 200 \text{ br}^2$$

$$S(\triangle ADE) = ?$$

- A) 48 B) 42 C) 40 D) 36 E) 32

6.



$$d_1 = 3x + 4y - 12 = 0$$

$$d_2 = 3x + 2y - 6 = 0$$

$$s(\triangle ABC) = ? \text{ br}^2$$

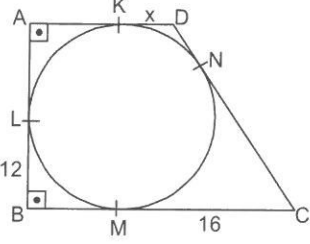
- A) 3 B) 4 C) 6 D) 8 E) 9

Cevap Anahtarı – Answer Sheet

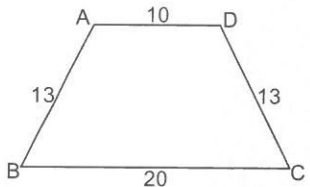
1.A	2.B	3.D	4.E	5.A	6.A
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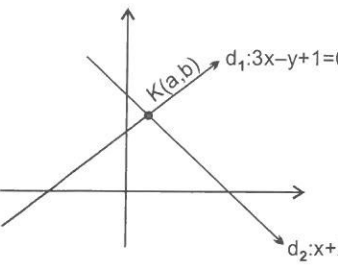
DENEME SINAVI – 11

1.  $[BC] \perp [AB]$
 $[AD] \perp [AB]$
 $|MC| = 16$
 $|LB| = 12$
 $|KD| = x$
 $x = ?$

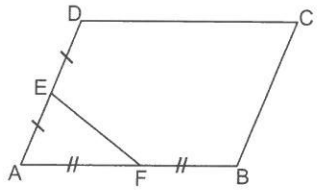
A) 6 B) 8 C) 9 D) 10 E) 12

2.  $[AD] \parallel [BC]$
 $|AB| = |DC| = 13$
 $|AD| = 10$
 $|BC| = 20$
 $S(ABCD) = ?$

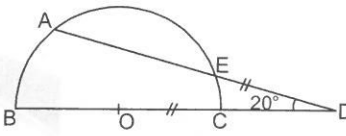
A) 120 B) 150 C) 180 D) 200 E) 210

3.  $d_1: 3x - y + 1 = 0$
 $d_2: x + 2y - 5 = 0$
 $K(a, b)$
 $\left. \begin{array}{l} d_1: 3x - y + 1 = 0 \\ d_2: x + 2y - 5 = 0 \end{array} \right\} \Rightarrow a + b = ?$

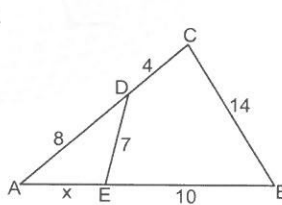
A) $\frac{12}{7}$ B) $\frac{13}{7}$ C) $\frac{15}{7}$ D) $\frac{18}{7}$ E) $\frac{19}{7}$

4.  $[AD] \parallel [BC]$
 $[AB] \parallel [DC]$
 $\frac{S(AFE)}{S(ABCD)} = ?$

A) $\frac{1}{8}$ B) $\frac{1}{7}$ C) $\frac{1}{6}$ D) $\frac{1}{5}$ E) $\frac{1}{4}$

5.  $|ED| = |OC|$
 $m(\widehat{ADC}) = 20^\circ$
 $m(\widehat{AB}) = x^\circ$
 $x = ?$

A) 60 B) 50 C) 40 D) 35 E) 25

6.  $|DC| = 4$ br
 $|DE| = 7$ br
 $|BC| = 14$ br
 $|BE| = 10$ br
 $|AD| = 8$ br
 $|AE| = x$ br

$x = ?$ br

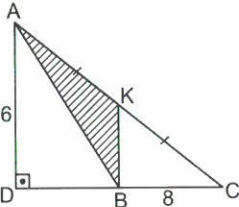
A) 7 B) 6 C) 5 D) 4 E) 3

Cevap Anahtarı – Answer Sheet

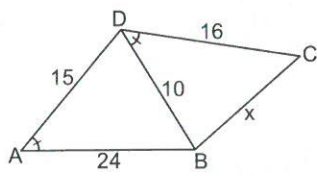
1.C	2.C	3.E	4.A	5.A	6.B
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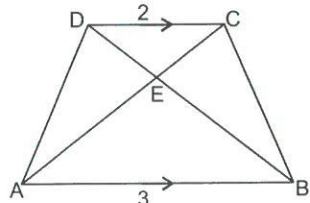
DENEME SINAVI – 12

1.  $[AD] \perp [DC]$
 $|AK| = |KC|$
 $|AD| = 6$
 $|BC| = 8$
 $S(\triangle ABK) = ?$

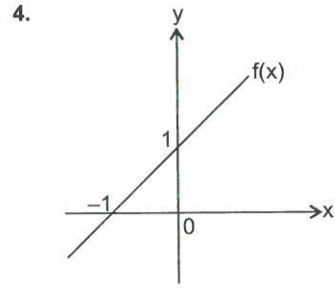
A) 10 B) 12 C) 14 D) 16 E) 24

2.  $m(\widehat{BAD}) = m(\widehat{BDC})$
 $|AD| = 15$
 $|AB| = 24$
 $|BD| = 10$
 $|DC| = 16$
 $|BC| = x = ?$

A) $\frac{19}{3}$ B) 8 C) $\frac{20}{3}$ D) 12 E) $\frac{15}{2}$

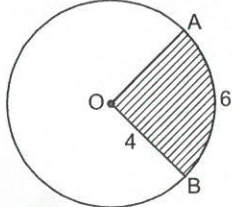
3.  $[DC] \parallel [AB]$
 $|DC| = 2$
 $|AB| = 3$
 $S(\triangle BCE) = 12$
 $S(ABCD) = ?$

A) 50 B) 48 C) 45 D) 42 E) 36

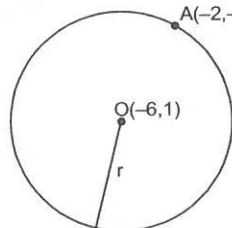


$y = f(x) = ?$

A) $y = -x - 1$ B) $y = -x + 1$ C) $y = x + 1$
D) $y = x$ E) $y = -x$

5.  $|OB| = 4 \text{ cm}$
 $|\widehat{AB}| = 6 \text{ cm}$
 $S(\text{AOB}) = ? \text{ cm}^2$

A) 8 B) 10 C) 12 D) 14 E) 18

6.  $r = ? \text{ br}$

A) 9 B) 8 C) 7 D) 6 E) 5

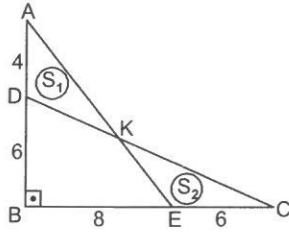
Cevap Anahtarı – Answer Sheet

1.B	2.C	3.A	4.C	5.C	6.E
-----	-----	-----	-----	-----	-----



DENEME SINAVI – 13

1.



$$|EC| = 6$$

$$|BE| = 8$$

$$|DB| = 6$$

$$|AD| = 4$$

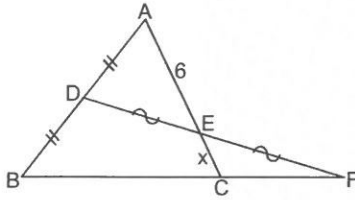
$$A(ADK) = S_1$$

$$A(KEC) = S_2$$

$$S_2 - S_1 = ?$$

- A) 2 B) 3 C) 4 D) 5 E) 6

2.



$$|AD| = |DB|$$

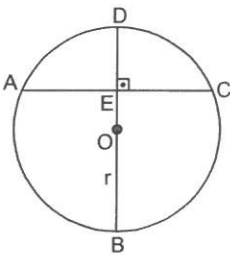
$$|DE| = |EF|$$

$$|AE| = 6 \text{ cm}$$

$$|EC| = x = ?$$

- A) 2 B) 3 C) 4 D) 5 E) 6

3.



$$|AC| \perp |DB|$$

$$|DE| = 4 \text{ cm}$$

$$|EB| = 16 \text{ cm}$$

$$|AC| = ?$$

- A) 8 B) 10 C) 12 D) 14 E) 16

4.

$$\vec{A} = [a, 3]$$

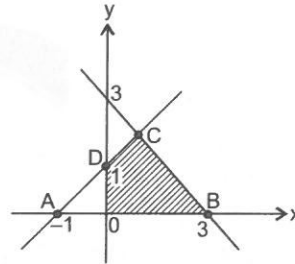
$$\vec{B} = [5, -3]$$

$$\vec{A} \perp \vec{B}$$

$$a = ?$$

- A) $\frac{3}{4}$ B) $\frac{3}{5}$ C) $\frac{6}{7}$ D) $\frac{8}{5}$ E) $\frac{9}{5}$

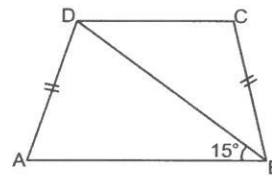
5.



$$A(BCDO) = ?$$

- A) 2 B) $\frac{5}{2}$ C) 3 D) $\frac{7}{2}$ E) 4

6.



$$[DC] \parallel [AB]$$

$$m(\widehat{DBA}) = 15^\circ$$

$$|BD| = 12\sqrt{2} \text{ br}$$

$$s(ABCD) = ? \text{ br}^2$$

- A) 120 B) 108 C) 96 D) 84 E) 72

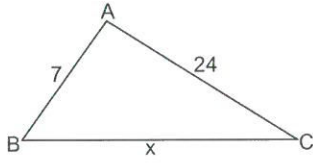
Cevap Anahtarı – Answer Sheet

1.A	2.A	3.E	4.E	5.D	6.E
-----	-----	-----	-----	-----	-----



DENEME SINAVI – 14

1.



$$m(\widehat{A}) < 90^\circ$$

$$|AB| = 7$$

$$|AC| = 24$$

$$? < x < ?$$

A) $7 < x < 24$

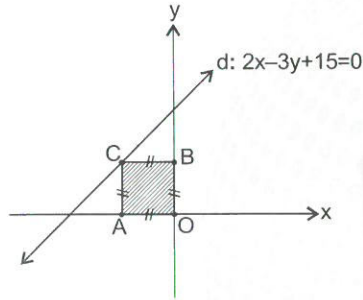
B) $17 < x < 24$

C) $17 < x < 25$

D) $7 < x < 25$

E) $17 < x < 31$

2.



$$AO \parallel BC$$

$$AC \parallel BO$$

$$\angle(AOBC) = ?$$

A) 8

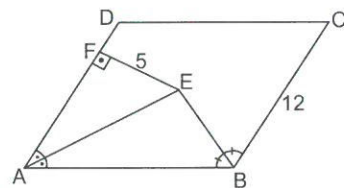
B) 12

C) 16

D) 20

E) 24

3.



$$[AB] \parallel [DC]$$

$$[AD] \parallel [BC]$$

$$|FE| = 5$$

$$|BC| = 12$$

$$S(ABCD) = ?$$

A) 60

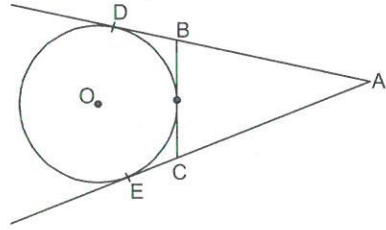
B) 120

C) 180

D) 240

E) 300

4.



$$|AD| = 7$$

$$\angle(ABC) = ?$$

A) 4

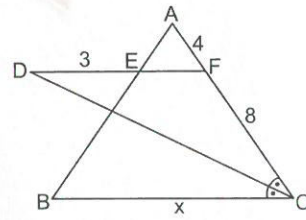
B) 7

C) 11

D) 14

E) 21

5.



$$[DF] \parallel [BC]$$

$$|DE| = 3$$

$$|AF| = 4$$

$$|FC| = 8$$

$$|BC| = x = ?$$

A) 12

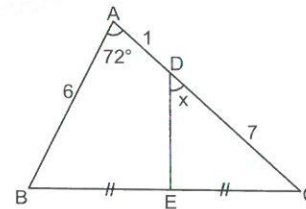
B) 13

C) 15

D) 18

E) 20

6.



$$m(\widehat{BAC}) = 72^\circ$$

$$|AB| = 6br$$

$$|DC| = 7br$$

$$|AD| = 1br$$

$$|BE| = |EC|$$

$$m(\widehat{EDC}) = x^\circ$$

A) 34

B) 36

C) 38

D) 40

E) 42

Cevap Anahtarı – Answer Sheet

1.C

2.B

3.B

4.D

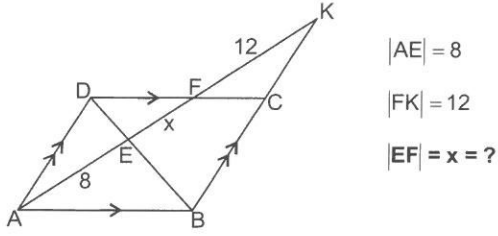
5.C

6.B



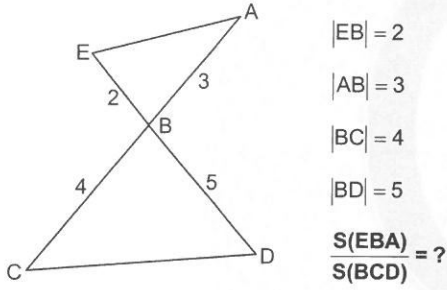
DENEME SINAVI – 15

1.



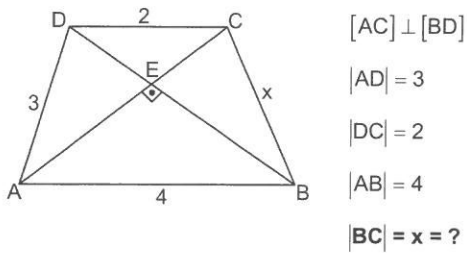
- A) 2 B) 4 C) 6 D) 8 E) 12

2.



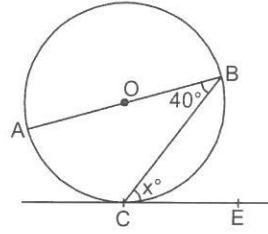
- A) $\frac{3}{5}$ B) $\frac{5}{9}$ C) $\frac{3}{10}$ D) $\frac{5}{11}$ E) $\frac{6}{11}$

3.



- A) $\sqrt{11}$ B) $2\sqrt{3}$ C) 4 D) $3\sqrt{2}$ E) $2\sqrt{5}$

4.



$$m(\widehat{ABC}) = 40^\circ$$

$$m(\widehat{BCE}) = x = ?$$

- A) 30 B) 40 C) 50 D) 60 E) 70

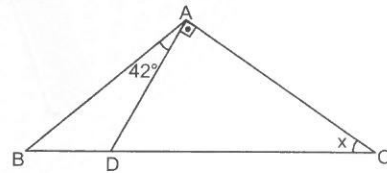
5. A(-1,4), B(4,2), C(k,3)

$$\overline{AB} \perp \overline{BC}$$

$$k = ?$$

- A) $\frac{1}{5}$ B) $\frac{2}{5}$ C) $\frac{22}{5}$ D) $\frac{11}{5}$ E) $\frac{3}{5}$

6.



$$|DC| = 2|AB|$$

$$m(\widehat{BAD}) = 42^\circ$$

$$m(\widehat{DAC}) = 90^\circ$$

$$m(\widehat{ACB}) = x$$

$$x = ?^\circ$$

- A) 22° B) 20° C) 18° D) 16° E) 14°

Cevap Anahtarı – Answer Sheet

1.B	2.C	3.A	4.C	5.C	6.D
-----	-----	-----	-----	-----	-----



1. $\vec{u} = (-2, m, 4)$

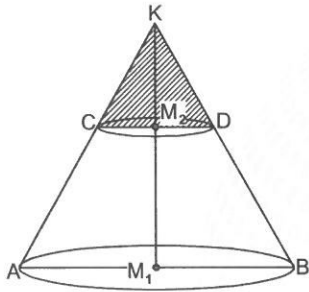
$\vec{v} = (1, -4, k)$

$\vec{u} = t \cdot \vec{v}$, $t \in \mathbb{R}$

$m + k = ?$

- A) -6 B) -2 C) 0 D) 6 E) 10

2.



$|KM_2| = 12$

$|M_2B| = 5$

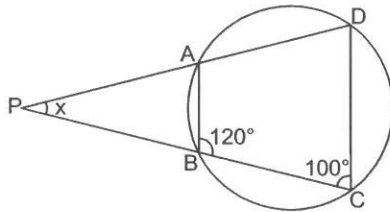
$\frac{|KC|}{|CA|} = \frac{2}{3}$

$[CD] \parallel [AB]$

$V(KCD) = ?$

- A) 12π B) 16π C) 18π D) 20π E) 24π

3.



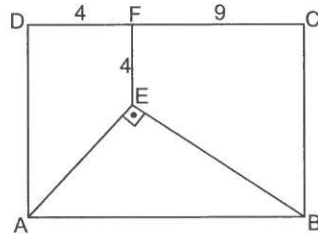
$m(\widehat{ABC}) = 120^\circ$

$m(\widehat{DCP}) = 100^\circ$

$m(\widehat{DPC}) = x = ?^\circ$

- A) 20 B) 30 C) 40 D) 50 E) 60

4.



$[AB] \parallel [DC]$

$[AD] \parallel [BC]$

$[AD] \perp [AB]$

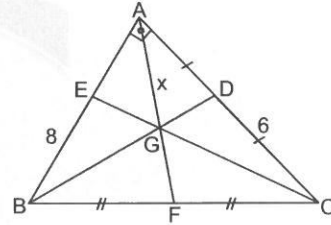
$|DF| = |FE| = 4$

$|FC| = 9$

$S(ABCD) = ?$

- A) 104 B) 112 C) 130 D) 169 E) 180

5.



$|AD| = |DC|$

$|BF| = |FC|$

$[BA] \perp [AC]$

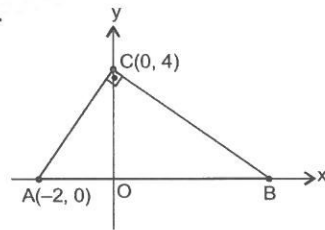
$|DC| = 6$

$|BE| = 8$

$|AG| = x = ?$

- A) $\frac{10}{3}$ B) $\frac{11}{3}$ C) 4 D) $\frac{20}{3}$ E) 8

6.



$[AC] \perp [CB]$

$|CB| = k$ br

$k = ?$ br

- A) 4 B) 6 C) $4\sqrt{5}$ D) $6\sqrt{5}$ E) 8

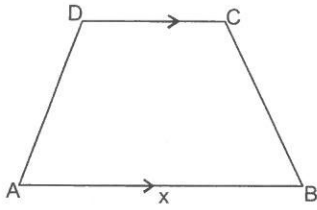
Cevap Anahtarı – Answer Sheet

1.D	2.B	3.A	4.C	5.D	6.C
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DENEME SINAVI – 17

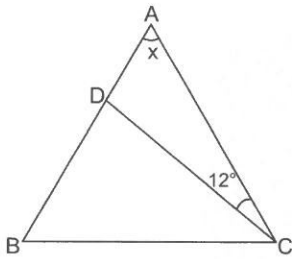
1.



$$\begin{aligned} |DC| &= 4 \\ |CB| &= 9 \\ m(\hat{C}) &= 2 \cdot m(\hat{A}) \\ |AB| &= x = ? \end{aligned}$$

- A) 36 B) 26 C) 18 D) 13 E) 5

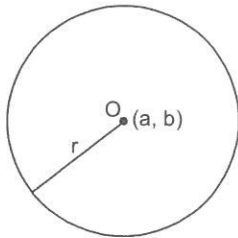
2.



$$\begin{aligned} |AB| &= |AC| \\ |DC| &= |BC| \\ m(\hat{ACD}) &= 12^\circ \\ m(\hat{BAC}) &= x = ?^\circ \end{aligned}$$

- A) 24 B) 36 C) 42 D) 52 E) 64

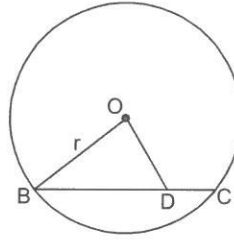
3.



$$\begin{aligned} x^2 + y^2 - 8x + 6y + 9 &= 0 \\ O(a, b) &= ?, \quad r = ? \end{aligned}$$

- A) O(4, 3) $r = 4$ B) O(-4, 3) $r = 2\sqrt{2}$ C) (4, -3) $r = 4$
D) O(4, -3) $r = 8$ E) O(4, -3) $r = 4\sqrt{2}$

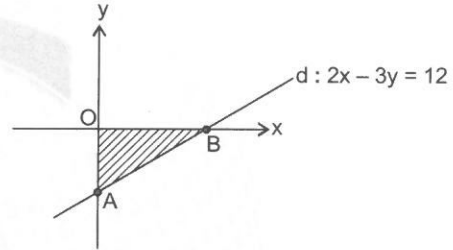
4.



$$\begin{aligned} |OD| &= 5\sqrt{2} \\ |BD| &= 17 \\ |DC| &= 7 \\ |OB| &= r = ? \end{aligned}$$

- A) 10 B) 11 C) 12 D) 13 E) 14

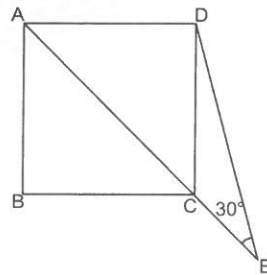
5.



$$\begin{aligned} d: 2x - 3y &= 12 \\ S(\triangle AOB) &= ? \end{aligned}$$

- A) 16 B) 12 C) 10 D) 8 E) 6

6.



$$\begin{aligned} |AB| &= |BC| = |CD| = |DA| \\ [AB] &\perp [BC] \\ [AB] &\parallel [DC] \\ |DE| &= 6\sqrt{2} \text{ br} \end{aligned}$$

$$\angle ABCD = ? \text{ br}$$

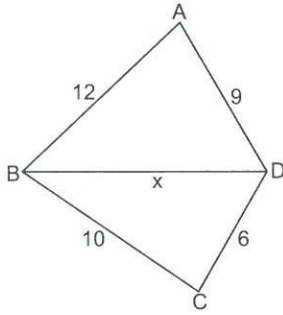
- A) 16 B) 20 C) 24 D) 28 E) 32

Cevap Anahtarı – Answer Sheet

1.D	2.D	3.C	4.D	5.B	6.C
-----	-----	-----	-----	-----	-----



1.

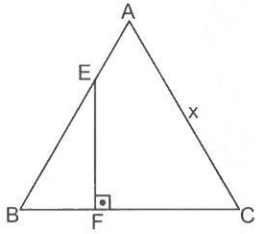


$$x \in \mathbb{Z}$$

$$\min(x) + \max(x) = ?$$

- A) 15 B) 16 C) 18 D) 19 E) 20

2.



$$|AB| = |AC| = |BC|$$

$$[EF] \perp [BC]$$

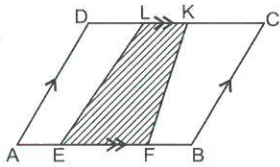
$$|FC| = 8$$

$$|EA| = 2$$

$$|AC| = x = ?$$

- A) 12 B) 14 C) 16 D) 18 E) 20

3.



$$[DC] \parallel [AB]$$

$$[DA] \parallel [CB]$$

$$|DC| = 4|KL|$$

$$|AB| = 2|EF|$$

$$S(EFKL) = 36 \text{ cm}^2$$

$$S(ABCD) = ?$$

- A) 48 B) 54 C) 72 D) 90 E) 96

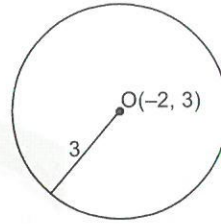
$$4. \quad \vec{A} - \vec{B} = (3, 2)$$

$$|\vec{A}|^2 + |\vec{B}|^2 = 17$$

$$\angle A, B = ?$$

- A) 2 B) 4 C) 6 D) 8 E) 16

5.



$$x^2 + y^2 + Dx + Ey + F = 0$$

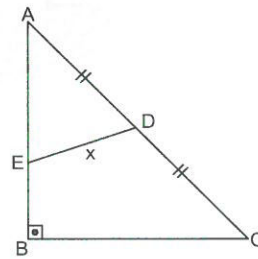
$$O(-2, 3)$$

$$r = 3$$

$$D + E + F = ?$$

- A) 2 B) 3 C) 5 D) 6 E) 8

6.



$$[AB] \perp [BC]$$

$$|AE| = 8 \text{ br}$$

$$|EB| = 2 \text{ br}$$

$$|BC| = 6 \text{ br}$$

$$|DE| = x \text{ br}$$

$$x = ? \text{ br}$$

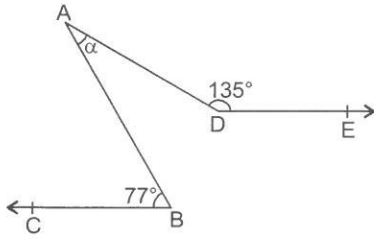
- A) 3 B) $3\sqrt{2}$ C) 4 D) $4\sqrt{2}$ E) 6

Cevap Anahtarı – Answer Sheet

1.D	2.B	3.E	4.A	5.A	6.B
-----	-----	-----	-----	-----	-----

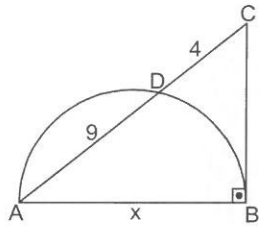


1.

 $[BC \parallel DE]$ $\alpha = ?^\circ$

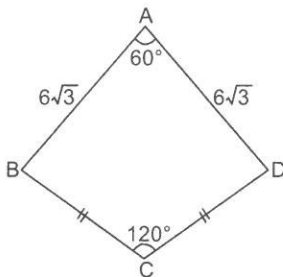
- A) 20 B) 26 C) 28 D) 30 E) 32

2.

 $[AB] \perp [CB]$ $|AD| = 9$ $|DC| = 4$ $|AB| = x = ?$

- A) 12 B) 9 C)
- $5\sqrt{13}$
- D)
- $3\sqrt{13}$
- E)
- $2\sqrt{3}$

3.

 $|AB| = |AD|$ $|CB| = |CD|$ $|AB| = 6\sqrt{3}$ $A(ABCD) = ?$

- A)
- $24\sqrt{2}$
- B)
- $27\sqrt{3}$
- C)
- $30\sqrt{3}$
-
- D)
- $32\sqrt{3}$
- E)
- $36\sqrt{3}$

4.

$$\vec{A} = (2, -1, 3)$$

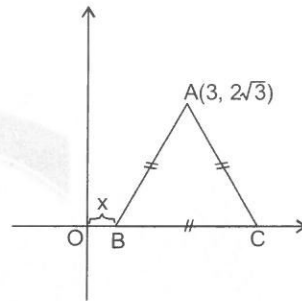
$$\vec{B} = (m, 3, 3)$$

$$\langle \vec{A}, \vec{B} \rangle = 0$$

$$m = ?$$

- A) -3 B) -2 C) 0 D) 2 E) 3

5.



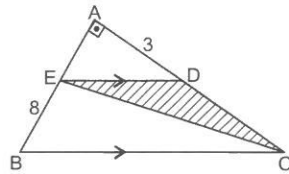
$$|AB| = |BC| = |AC|$$

$$A(3, 2\sqrt{3})$$

$$|OB| = x = ?$$

- A)
- $\frac{1}{2}$
- B) 1 C)
- $\frac{\sqrt{3}}{2}$
- D)
- $\sqrt{3}$
- E) 3

6.

 $[BA] \perp [AC]$ $[ED] \parallel [BC]$ $|AD| = 3 \text{ br}$ $|EB| = 8 \text{ br}$

$$s(\triangle EDC) = ? \text{ br}^2$$

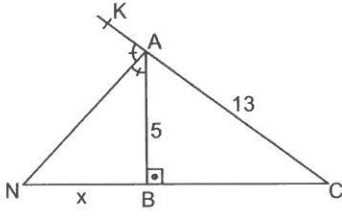
- A) 12 B) 15 C) 18 D) 21 E) 24

Cevap Anahtarı – Answer Sheet

1.E	2.D	3.E	4.A	5.B	6.A
-----	-----	-----	-----	-----	-----



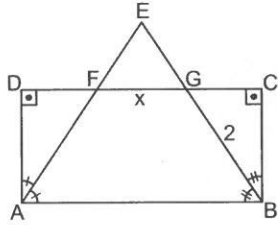
1.



$$\begin{aligned} |AB| &= 5 \\ |AC| &= 13 \\ |NB| &= x \\ x &= ? \end{aligned}$$

- A) $\frac{15}{2}$ B) $\frac{17}{2}$ C) 4 D) 5 E) 6

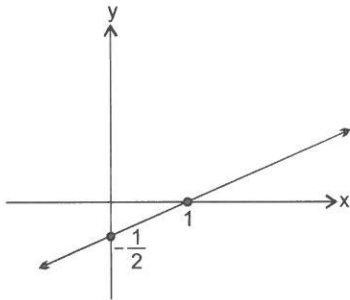
2.



$$\begin{aligned} [AD] &\parallel [BC] \\ [AB] &\parallel [DC] \\ [AD] &\perp [DC] \\ 4|BC| &= |AB| \\ |GB| &= 2 \\ |FG| &= x = ? \end{aligned}$$

- A) 1 B) $\sqrt{2}$ C) 2 D) $2\sqrt{2}$ E) 4

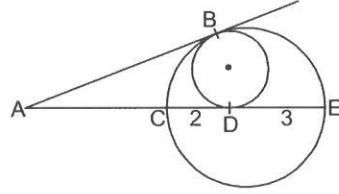
3.



$$\begin{aligned} x + ay - 1 &= 0 \\ a &= ? \end{aligned}$$

- A) $-\frac{5}{2}$ B) $-\frac{3}{2}$ C) $-\frac{1}{2}$ D) -2 E) -1

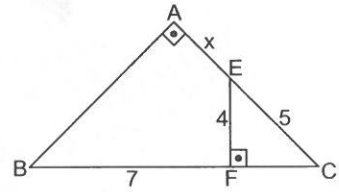
4.



$$\frac{|AC|}{|AB|} = ?$$

- A) $\frac{2}{3}$ B) $\frac{3}{4}$ C) $\frac{3}{5}$ D) $\frac{4}{5}$ E) $\frac{5}{8}$

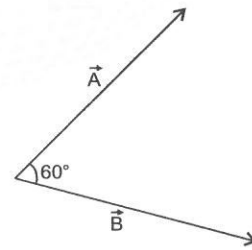
5.



$$\begin{aligned} |BF| &= 7 \\ |EF| &= 4 \\ |EC| &= 5 \\ |AE| &= x = ? \end{aligned}$$

- A) 1 B) 2 C) 3 D) 4 E) 5

6.



$$\begin{aligned} |\vec{A}| &= 4 \\ |\vec{B}| &= 5 \end{aligned}$$

$$|\vec{A} + \vec{B}| = ?$$

- A) $4\sqrt{3}$ B) $2\sqrt{13}$ C) $2\sqrt{14}$ D) $\sqrt{61}$ E) 8

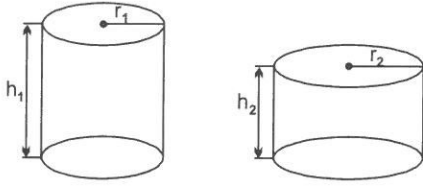
Cevap Anahtarı – Answer Sheet

1.A	2.D	3.D	4.A	5.A	6.D
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DENEME SINAVI – 21

1.



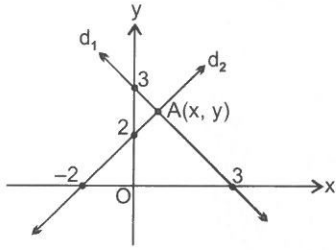
$$V_1 = V_2$$

$$3r_1 = 2r_2$$

$$\frac{h_1}{h_2} = ?$$

- A) $\frac{9}{4}$ B) $\frac{3}{2}$ C) 1 D) $\frac{2}{3}$ E) $\frac{4}{9}$

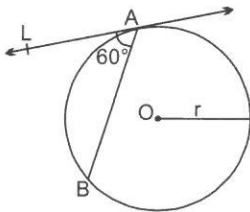
2.



$$A(x, y) = ?$$

- A) $\left(\frac{1}{3}, \frac{7}{3}\right)$ B) $\left(\frac{1}{4}, \frac{9}{4}\right)$ C) $\left(\frac{1}{2}, \frac{5}{2}\right)$
D) $\left(1, \frac{5}{2}\right)$ E) $\left(1, \frac{7}{3}\right)$

3.



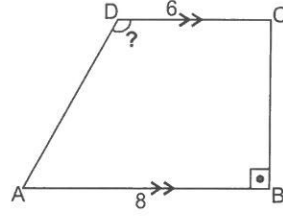
$$m(\widehat{LAB}) = 60^\circ$$

$$|AB| = 12$$

$$r = ?$$

- A) 6 B) $6\sqrt{2}$ C) $3\sqrt{2}$ D) $4\sqrt{3}$ E) $2\sqrt{3}$

4.



$$[AB] \parallel [DC]$$

$$m(\widehat{ABC}) = 90^\circ$$

$$|AB| = 8 \text{ cm}$$

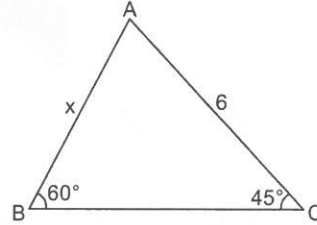
$$|DC| = 6 \text{ cm}$$

$$S(ABCD) = 14 \text{ cm}^2$$

$$m(\widehat{CDA}) = ?$$

- A) 120° B) 135° C) 145° D) 160° E) 165°

5.



$$m(\widehat{ABC}) = 60^\circ$$

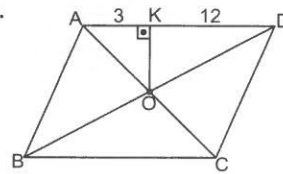
$$m(\widehat{ACB}) = 45^\circ$$

$$|AC| = 6$$

$$|AB| = x = ?$$

- A) $2\sqrt{3}$ B) $2\sqrt{6}$ C) $3\sqrt{2}$ D) $3\sqrt{3}$ E) $4\sqrt{3}$

6.



$$[AB] \parallel [DC]$$

$$[AD] \parallel [BC]$$

$$|AB| = |BC|$$

$$[OK] \perp [AD]$$

$$|AK| = 3 \text{ br}$$

$$|KD| = 12 \text{ br}$$

$$|BD| = x \text{ br}$$

$$x = ? \text{ br}$$

- A) $6\sqrt{5}$ B) 12 C) $12\sqrt{5}$ D) 18 E) $18\sqrt{5}$

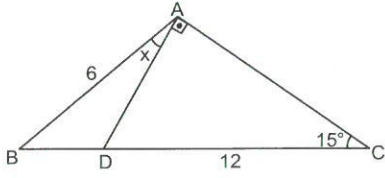
Cevap Anahtarı – Answer Sheet

1.A	2.C	3.D	4.B	5.B	6.C
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DENEME SINAVI – 22

1.



$$[DA] \perp [AC]$$

$$m(\widehat{ACB}) = 15^\circ$$

$$|AB| = 6 \text{ br}$$

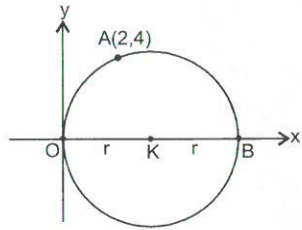
$$|DC| = 12 \text{ br}$$

$$m(\widehat{BAD}) = x^\circ$$

$$x = ?^\circ$$

- A) 15 B) 30 C) 45 D) 60 E) 75

2.



$$|OK| = |KB| = r$$

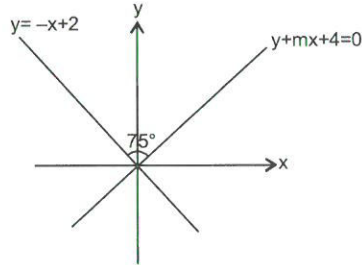
$$A(2, 4)$$

$$|OB| = x \text{ br}$$

$$x = ? \text{ br}$$

- A) 6 B) 8 C) 9 D) 10 E) 12

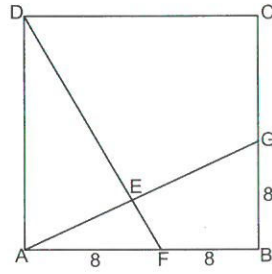
3.



$$m = ?$$

- A) $-\frac{\sqrt{3}}{3}$ B) $-\sqrt{3}$ C) 1 D) $\frac{\sqrt{3}}{3}$ E) $\sqrt{3}$

4.



$$[AD] \parallel [BC]$$

$$[AB] \parallel [DC]$$

$$[AB] \perp [BC]$$

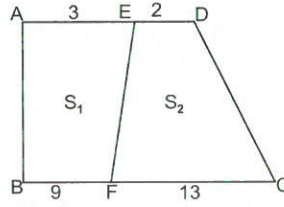
$$|AB| = |BC|$$

$$|AF| = |FB| = |GB| = 8 \text{ br}$$

$$\frac{|EF|}{|DE|} = ?$$

- A) $\frac{1}{4}$ B) $\frac{1}{3}$ C) $\frac{1}{2}$ D) 1 E) $\frac{6}{5}$

5.



$$[AD] \parallel [BC]$$

$$|AE| = 3 \text{ br}$$

$$|ED| = 2 \text{ br}$$

$$|BF| = 9 \text{ br}$$

$$|FC| = 13 \text{ br}$$

$$s(AEBF) = S_1 \text{ br}^2$$

$$s(EDCF) = S_2 \text{ br}^2$$

$$\frac{S_1}{S_2} = ?$$

- A) $\frac{5}{4}$ B) $\frac{4}{3}$ C) $\frac{2}{3}$ D) $\frac{3}{5}$ E) $\frac{4}{5}$

6.

$$\vec{A} = (2, k, 4) \quad \vec{B} = (6, 2, -2)$$

$$\vec{A} \perp \vec{B}$$

$$k = ?$$

- A) -2 B) -1 C) 0 D) 1 E) 2

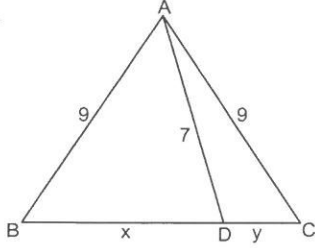
Cevap Anahtarı – Answer Sheet

1.C	2.D	3.B	4.A	5.E	6.A
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DENEME SINAVI – 23

1.



$$|AB| = |AC| = 9 \text{ br}$$

$$|AD| = 7 \text{ br}$$

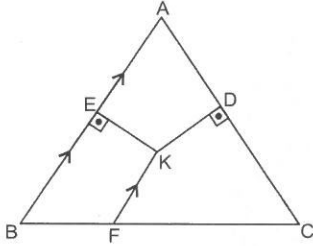
$$|BD| = x \text{ br}$$

$$|DC| = y \text{ br}$$

$$x \cdot y = ? \text{ br}$$

- A) 36 B) 34 C) 32 D) 30 E) 28

2.



$$|AB| = |AC| = |BC|$$

$$[KF] \parallel [AB]$$

$$[KE] \perp [AC]$$

$$|EK| = 2\sqrt{3} \text{ br}$$

$$|KD| = 4\sqrt{3} \text{ br}$$

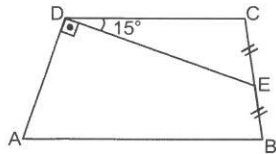
$$|AC| = 18 \text{ br}$$

$$|KF| = x \text{ br}$$

$$x = ? \text{ br}$$

- A) 6 B) 7 C) 8 D) 9 E) 10

3.



$$[DC] \parallel [AB]$$

$$[AD] \perp [DE]$$

$$|CE| = |EB|$$

$$|DC| = 8 \text{ br}$$

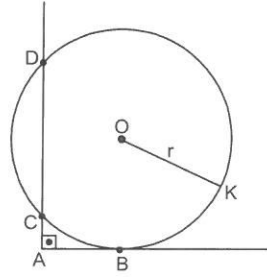
$$|AB| = 16 \text{ br}$$

$$m(\angle CDE) = 15^\circ$$

$$s(ABCD) = br^2$$

- A) 72 B) 76 C) 80 D) 84 E) 88

4.



$$[DA] \perp [AB]$$

$$|DA| = 4 \text{ br}$$

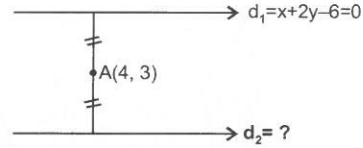
$$|DC| = 3|CA|$$

$$|OK| = r \text{ br}$$

$$r = ?$$

- A) $\frac{3}{2}$ B) 2 C) $\frac{5}{2}$ D) 3 E) $\frac{7}{2}$

5.



$$d_2 = ?$$

$$A) x + 2y - 8 = 0$$

$$B) x - 2y + 8 = 0$$

$$C) x + 2y - 14 = 0$$

$$D) x + 2y + 8 = 0$$

$$E) x - 2y - 14 = 0$$

6.

$$A(x, -5)$$

$$B(3, y)$$

$$\overrightarrow{BA} = (-4, 2)$$

$$x \cdot y = ?$$

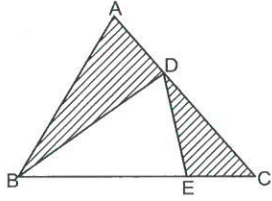
- A) 7 B) 6 C) 5 D) -6 E) -7

Cevap Anahtarı – Answer Sheet

1.C	2.A	3.A	4.C	5.C	6.A
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1.



$$\frac{|AD|}{|DC|} = \frac{1}{3}$$

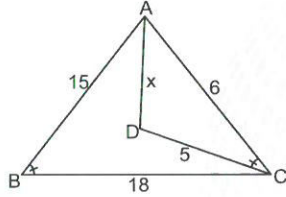
$$\frac{|BC|}{|EC|} = 3$$

$$s(\triangle ABD) + s(\triangle DEC) = 42 \text{ br}^2$$

$$s(\triangle ABC) = ? \text{ br}^2$$

A) 63 B) 72 C) 76 D) 84 E) 96

2.



$$m(\widehat{ABC}) = m(\widehat{ACD})$$

$$|AC| = 6 \text{ br}$$

$$|CD| = 5 \text{ br}$$

$$|BC| = 18 \text{ br}$$

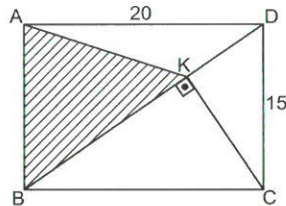
$$|AB| = 15 \text{ br}$$

$$|AD| = x \text{ br}$$

$$x = ? \text{ br}$$

A) 1 B) 2 C) 3 D) 4 E) 5

3.



$$[AD] \parallel [BC]$$

$$[AB] \parallel [DC]$$

$$[AB] \perp [BC]$$

$$[CK] \perp [BD]$$

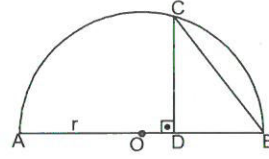
$$|AD| = 20 \text{ br}$$

$$|CD| = 15 \text{ br}$$

$$s(\triangle ABK) = ? \text{ br}^2$$

A) 84 B) 96 C) 108 D) 120 E) 132

4.



$$[CD] \perp [AB]$$

$$|CB| = 4 \text{ br}$$

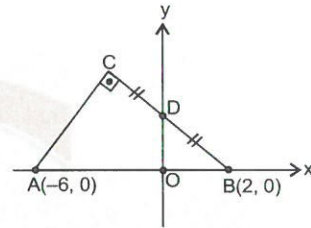
$$|AD| = 6 \text{ br}$$

$$|CD| = x \text{ br}$$

$$x = ? \text{ br}$$

A) $2\sqrt{3}$ B) 4 C) $3\sqrt{2}$ D) $2\sqrt{5}$ E) 5

5.



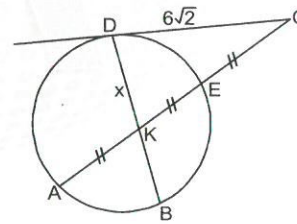
$$[AC] \perp [CB]$$

$$|CD| = |DB|$$

$$s(\triangle ABC) = ? \text{ br}^2$$

A) 28 B) 24 C) 20 D) 16 E) 12

6.



$$K \in [AC]$$

$$E \in [AC]$$

$$K \in [DB]$$

$$|DC| = 6\sqrt{2} \text{ br}$$

$$|KB| = 3 \text{ br}$$

$$|AK| = |KE| = |EC|$$

$$|DK| = x \text{ br}$$

$$x = ? \text{ br}$$

A) 8 B) 6 C) $6\sqrt{2}$ D) 4 E) $4\sqrt{2}$

Cevap Anahtarı – Answer Sheet

1.D	2.B	3.B	4.B	5.D	6.A
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