

yös

IQ Intelligence
Quotient

ÇÖZÜMLÜ SORU BANKASI
QUESTION BANK WITH SOLUTIONS

EDİTÖR
Özgen BULUT

GRAFİK - DİZGİ
Tasarı Akademi Yayınları

HAZIRLAYAN
Cem ÖZTÜRK

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I.BASIM

Bu kitap T.C. Kültür Bakanlığı
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ŞİFRELER

PASSWORDS

TEST - 1

1. MEN	}	{	273
ECA			125
NET			526
TAM			726
CET			631

⇒ NET = ?

- A) 635 B) 726 C) 526 D) 273 E) 123

2. REF	}	{	212
MER			575
EME			125
RAR			252
ERE			523

⇒ MER = ?

- A) 125 B) 212 C) 252 D) 523 E) 575

3. TAF	}	{	592
HEŞ			515
ANA			728
ALE			456
EME			232

⇒ ALE = ?

- A) 592 B) 515 C) 728 D) 456 E) 232

4. KEŞ	}	{	572
NÜM			946
JİP			012
FÜK			678
MEP			345

⇒ MEP = ?

- A) 012 B) 345 C) 572 D) 678 E) 946

5. ÜTU	}	{	♥ ● ★
TÜÜ			● ★ ♥
UTÜ			★ ♥ ●
TUÜ			♥ ★ ●
ÜUT			★ ● ♥

⇒ UTÜ = ?

- A) ★ ♥ ● B) ● ★ ♥ C) ♥ ● ★
D) ♥ ★ ● E) ★ ● ♥

6. △ ● □	}	{	531
△ □ ●			351
● □ △			153
□ ● △			135
△ △ ●			115

⇒ □ ● △ = ?

- A) 115 B) 135 C) 153 D) 351 E) 531

TEST - 1

7. NESE	{	9751
LÇSN		1353
ÇLEN		3175
NÇES		1735
ENÇS		7931

⇒ NÇES = ?

- A) 9751 B) 7931 C) 3175
D) 1735 E) 1353

8. NLKM	{	6428
KMNL		2486
KLNM		4826
LNKM		2684
MLKN		8426

⇒ LNKM = ?

- A) 8426 B) 6428 C) 4826
D) 2684 E) 2486

9. CMLE	{	1707
MELE		0917
EMLM		1970
LCEM		7101
ECML		9701

⇒ CMLE = ?

- A) 0917 B) 1970 C) 1707
D) 7101 E) 9701

10. PAÇA	{	□ △ △ ○
AÇAP		△ ○ △ □
PAAÇ		○ ● □ △
AÇEP		△ ○ ● □
ÇEPA		□ △ ○ △

⇒ ÇAPA = ?

- A) △ ○ ● ○ B) ○ △ □ △ C) □ △ ○ △
D) △ ○ □ ○ E) □ ● △ ●

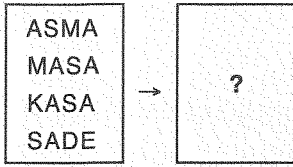
11. TEÇA	{	- + ○
TATA		= - + -
NATA		+ - + -
LATA		+ x + -
NATM		- + -

⇒ NALAN = ?

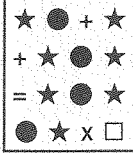
- A) || - = - || B) + - ○ - + C) - || + || -
D) = - || - = E) || = - = ||

TEST - 1

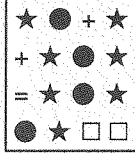
12.



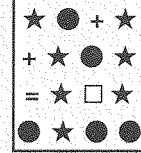
A)



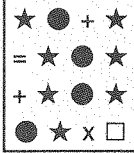
B)



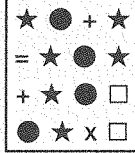
C)



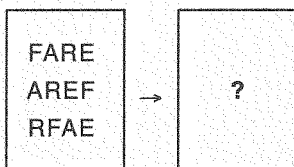
D)



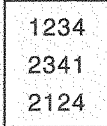
E)



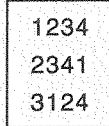
13.



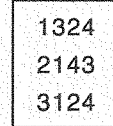
A)



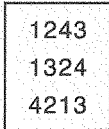
B)



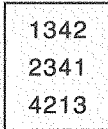
C)



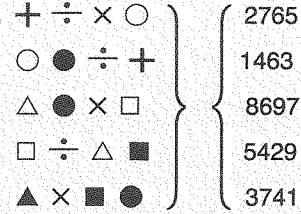
D)



E)



14.



$$\Rightarrow \triangle \div \times \square = ?$$

A) 2465

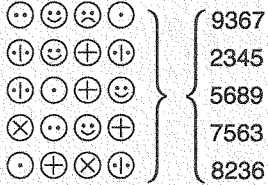
B) 2675

C) 1465

D) 5641

E) 7924

15.



$$\Rightarrow \text{☺} \text{☺} \text{☹} \text{☺} = ?$$

A) 2345

B) 5689

C) 7563

D) 8236

E) 9367

TEST - 1

$$16. \left. \begin{array}{l} \text{ANPA} \\ \text{SAPL} \\ \text{NEPS} \\ \text{APSA} \\ \text{ÇEKA} \end{array} \right\} \left\{ \begin{array}{l} 2781 \\ 1461 \\ 6145 \\ 1341 \\ 3746 \end{array} \right.$$

⇒ NEPS = ?

- A) 1461 B) 1341 C) 3746
D) 6145 E) 2781

$$18. \left. \begin{array}{l} \text{ŞAGM} \\ \text{MEJŞ} \\ \text{KAGM} \\ \text{EJAG} \\ \text{GKEZ} \end{array} \right\} \left\{ \begin{array}{l} 5972 \\ 7815 \\ 6783 \\ 9156 \\ 3156 \end{array} \right.$$

⇒ GKEZ = ?

- A) 5972 B) 7815 C) 6783
D) 9156 E) 3156

$$17. \left. \begin{array}{l} \square \bigcirc \star + \\ \star \square \times \bigcirc \\ \bigcirc + \square \times \\ + \div \bigcirc \star \\ \div \times \square \triangle \end{array} \right\} \left\{ \begin{array}{l} \div \div \triangle \blacksquare \\ \times \div \oplus \# \\ \# \triangle \div \oplus \\ \oplus \times \triangle \div \\ \triangle \oplus \# \times \end{array} \right.$$

⇒ + ÷ ○ ★ = ?

- A) $\triangle \oplus \# \times$ B) $\oplus \times \triangle \div$
C) $\# \triangle \div \oplus$ D) $\times \div \oplus \#$
E) $\div \div \triangle \blacksquare$

TEST - 1 ÇÖZÜMLER

1. i) $\left. \begin{array}{l} \text{NET} \\ \text{CET} \end{array} \right\} \left\{ \begin{array}{l} 526 \\ 726 \end{array} \right. \Rightarrow E = 2, T = 6$
 ii) $T = 6$ ise $\text{TAM} = 631 \Rightarrow A = 3, M = 1$
 iii) $M = 1$ ise $\text{MEN} = 125 \Rightarrow N = 5$
 O halde $\Rightarrow \text{NET} = 526$

Cevap: C

2. $\left. \begin{array}{l} \text{REF} \\ \text{MER} \\ \text{EME} \\ \text{RAR} \\ \text{ERE} \end{array} \right\} \left\{ \begin{array}{l} 212 \\ 575 \\ 125 \\ 252 \\ 523 \end{array} \right.$
 $\downarrow$
 R ve E harfleri
 ikişer tane
 O halde $M = 1$
 $\Rightarrow \text{MER} = 125$

Cevap: A

3. $\left. \begin{array}{l} \text{ALE} \\ \text{EME} \end{array} \right\} \left\{ \begin{array}{l} 592 \\ 232 \end{array} \right. \Rightarrow E = 2, M = 3, L = 9, A = 5$
 $\Rightarrow \text{ALE} = 592$

Cevap: A

4. $\left. \begin{array}{l} \text{KEŞ} \\ \text{NÜM} \\ \text{JİP} \\ \text{FÜK} \\ \text{MEP} \end{array} \right\} \left\{ \begin{array}{l} 572 \\ 946 \\ 012 \\ 678 \\ 345 \end{array} \right.$
 $\downarrow$
 E ve Ü harfleri
 ikişer tane
 $\Rightarrow \text{J} = 1$
 $\Rightarrow \text{JİP} = 012, P = 2$
 $\Rightarrow \text{MEP} = 572$

Cevap: C

5. $\left. \begin{array}{l} \text{ÜTU} \\ \text{TÜÜ} \\ \text{ÜTÜ} \\ \text{TUÜ} \\ \text{ÜUT} \end{array} \right\} \left\{ \begin{array}{l} \heartsuit \bullet \star \\ \bullet \star \heartsuit \\ \star \heartsuit \bullet \\ \heartsuit \star \bullet \\ \star \bullet \heartsuit \end{array} \right.$
 $\downarrow$
 Ü ve T harfleri
 ikişer tane
 O halde $\text{UTÜ} = \bullet \star \heartsuit$

Cevap: B

6. $\left. \begin{array}{l} \triangle \bullet \square \\ \triangle \square \bullet \\ \bullet \square \triangle \\ \square \bullet \triangle \\ \triangle \triangle \bullet \end{array} \right\} \left\{ \begin{array}{l} 531 \\ 351 \\ 153 \\ 135 \\ 115 \end{array} \right. \Rightarrow \triangle = 1, \bullet = 5, \square = 3$
 $\Rightarrow \square \bullet \triangle = 351$

Cevap: D

7. $\left. \begin{array}{l} \text{NESE} \\ \text{LÇSN} \\ \text{ÇLEN} \\ \text{NÇES} \\ \text{ENÇS} \end{array} \right\} \left\{ \begin{array}{l} 9751 \\ 1353 \\ 3175 \\ 1735 \\ 7931 \end{array} \right. \Rightarrow \text{Ç} = 7$

O halde $\text{ÇLEN} = 7931 \Rightarrow L = 9, E = 3, N = 1$
 $\Rightarrow \text{NÇES} = 1735$ olur.

Cevap: D

TEST - 1 ÇÖZÜMLER

$$8. \left. \begin{array}{l} \text{NLKM} \\ \text{KMNL} \\ \text{KLNM} \\ \text{LNKM} \\ \text{MLKN} \end{array} \right\} \left\{ \begin{array}{l} 6428 \\ 2486 \\ 4826 \\ 2684 \\ 8426 \end{array} \Rightarrow M = 6$$

M = 6 ise $\text{MLKN} = 6428 \Rightarrow L = 4, K = 2, N = 8$
 $\Rightarrow \text{LNKM} = 4826$

Cevap: C

$$9. \left. \begin{array}{l} \text{CMLE} \\ \text{MELE} \\ \text{EMLM} \\ \text{LCEM} \\ \text{ECML} \end{array} \right\} \left\{ \begin{array}{l} 1707 \\ 0917 \\ 1970 \\ 7101 \\ 9701 \end{array} \Rightarrow L = 0$$

L = 0 ise $\text{LCEM} = 0917 \Rightarrow C = 9, E = 1, M = 7$
 O halde $\Rightarrow \text{CMLE} = 9701$

Cevap: E

$$10. \left. \begin{array}{l} \text{PAÇA} \\ \text{AÇAP} \\ \text{PAAÇ} \\ \text{AÇEP} \\ \text{ÇEPA} \end{array} \right\} \left\{ \begin{array}{l} \square \triangle \triangle \bigcirc \\ \triangle \bigcirc \triangle \square \\ \bigcirc \bullet \square \triangle \\ \triangle \bigcirc \bullet \square \\ \square \triangle \bigcirc \triangle \end{array} \Rightarrow A = \triangle$$

A = $\triangle \Rightarrow \text{PAÇA} = \square \triangle \bigcirc \triangle \Rightarrow P = \square, Ç = \bigcirc$
 O halde $\Rightarrow \text{ÇAPA} = \bigcirc \triangle \square \triangle$

Cevap: B

$$11. i) \left. \begin{array}{l} \text{T} \textcircled{\text{E}} \text{ÇA} \\ \text{TATA} \\ \text{NATA} \\ \text{LATA} \\ \text{NAT} \textcircled{\text{M}} \end{array} \right\} \left\{ \begin{array}{l} \parallel - + \bigcirc \\ = - + - \\ + - + - \\ + \textcircled{\text{x}} - - \\ \parallel - + - \end{array} \right.$$

↓ ↓

4 tane A 4 tane - $\Rightarrow A = -, E = \textcircled{\text{x}}, M = \bigcirc$

$$ii) \left. \begin{array}{l} \text{T} \text{E} \text{ÇA} \\ \text{TATA} \\ \text{NATA} \\ \text{LATA} \\ \text{NATM} \end{array} \right\} \left\{ \begin{array}{l} \parallel - + \bigcirc \\ \textcircled{=} - + - \\ \pm - + - \\ \pm \text{x} - - \\ \parallel - + - \end{array} \right.$$

↓ ↓

2 tane 2 tane

N ve T harfi + ve $\parallel$ sembolleri $\Rightarrow L = =$

iii) L = = ise $\text{LATA} = = - + - \Rightarrow T = +$

iv) M = $\bigcirc$ ise $\text{NATM} = \parallel - + \bigcirc \Rightarrow N = \parallel$

O halde $\text{NALAN} = \parallel - = - \parallel$

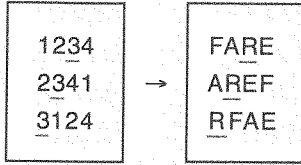
Cevap: A

$$12. \left\{ \begin{array}{l} \star \bullet \pm \star \\ \pm \star \bullet \star \\ = \star \bullet \star \\ \bullet \star \times \square \end{array} \right\} \Rightarrow \left\{ \begin{array}{l} \text{ASMA} \\ \text{MASA} \\ \text{KASA} \\ \text{SADE} \end{array} \right.$$

Cevap: A

TEST - 1 ÇÖZÜMLER

13.



Cevap: B

14. i) $\left\{ \begin{array}{l} + \div \times \circ \\ \circ \bullet \div + \\ \triangle \bullet \times \square \\ \square \div \triangle \blacksquare \\ \triangle \otimes \blacksquare \bullet \end{array} \right\} \left\{ \begin{array}{l} 2765 \\ 1463 \\ 8697 \\ 5429 \\ 3741 \end{array} \right\} \Rightarrow \times = 6$

O halde

$$\triangle \times \blacksquare \bullet = 8697$$

$$\Rightarrow \triangle = 8, \blacksquare = 9, \bullet = 7$$

ii) $\blacksquare = 9$ ise $\square \div \triangle \blacksquare = 5429$

$$\Rightarrow \square = 5, \div = 4, \triangle = 2$$

O halde

$$\triangle \div \times \square = 2465$$

Cevap: A

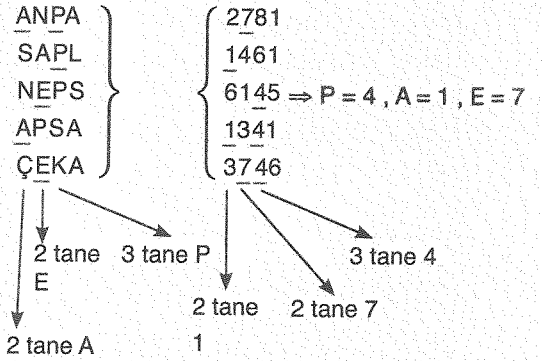
15. $\left\{ \begin{array}{l} \odot \odot \odot \odot \\ \oplus \odot \oplus \odot \\ \oplus \odot \oplus \odot \\ \otimes \odot \oplus \odot \\ \odot \oplus \otimes \odot \end{array} \right\} \left\{ \begin{array}{l} 9367 \\ 2345 \\ 5689 \\ 7563 \\ 8236 \end{array} \right\} \Rightarrow \odot = 3, \oplus = 6$

$$\oplus = 6 \text{ ise } \otimes \odot \oplus \odot = 8236, \otimes = 8, \odot = 2$$

$$\odot = 2 \text{ ise } \odot \odot \odot \odot = 2345$$

Cevap: A

16.



$$E = 7, P = 4 \text{ ise } \underline{NEPS} = \underline{3746}$$

Cevap: C

17. $\left\{ \begin{array}{l} \square \circ \star + \\ \star \square \times \circ \\ \circ + \square \times \\ + \div \circ \star \\ \div \times \square \triangle \end{array} \right\}$

$$\left\{ \begin{array}{l} \div \div \triangle \blacksquare \\ \times \div \oplus \# \\ \# \triangle \div \oplus \Rightarrow \square = \triangle \\ \oplus \times \triangle \div \\ \triangle \oplus \# \times \end{array} \right.$$

$$\square = \triangle \text{ ise } \square \circ \star + = \triangle \oplus \# \times$$

$$\Rightarrow \circ = \oplus, \star = \#, + = \times$$

$$+ = \times \text{ ise } + \div \circ \star = \times \div \oplus \#$$

Cevap: D

18. ŞAGM

MEJŞ

KAGM

EJAG

GKEZ

$$\left\{ \begin{array}{l} 5972 \\ 7815 \\ 6783 \Rightarrow G=5, M=6 \\ 9156 \\ 3156 \end{array} \right.$$

$$G = 5 \text{ ise } \underline{GKEZ} = \underline{5972}$$

Cevap: A

TEST - 2

1. $\left. \begin{array}{l} \text{SAPNU} \\ \text{NAMKE} \\ \text{MADCE} \\ \text{CAPUN} \\ \text{DANEP} \end{array} \right\} \left\{ \begin{array}{l} 81372 \\ 91243 \\ 31567 \\ 51897 \\ 01234 \end{array} \right.$

⇒ NAMKE = ?

- A) 81372 B) 91243 C) 31567
D) 51897 E) 01234

2. $\left. \begin{array}{l} \text{HİYYA} \\ \text{MEKKA} \\ \text{LEMNA} \\ \text{ŞAHHİ} \\ \text{KAŞŞİ} \end{array} \right\} \left\{ \begin{array}{l} 76554 \\ 38224 \\ 18004 \\ 94776 \\ 24996 \end{array} \right.$

⇒ HİYYA = ?

- A) 24996 B) 94776 C) 18004
D) 38224 E) 76554

3. $\left. \begin{array}{l} \text{NABAP} \\ \text{PÜCÜK} \\ \text{NAMAN} \\ \text{KİPCÜ} \\ \text{NAMKA} \end{array} \right\} \left\{ \begin{array}{l} 29534 \\ 87178 \\ 87675 \\ 87127 \\ 54342 \end{array} \right.$

⇒ NAMAN = ?

- A) 29534 B) 87178 C) 87675
D) 87127 E) 54342

4. $\left. \begin{array}{l} 37265 \\ 45831 \\ 42135 \\ 89136 \\ 15471 \end{array} \right\} \left\{ \begin{array}{l} \text{NÜPAM} \\ \text{KÇPAE} \\ \text{PEKZP} \\ \text{AZÇME} \\ \text{KENAP} \end{array} \right.$

⇒ 45831 = ?

- A) NÜPAM B) KÇPAE C) PEKZP
D) AZÇME E) KENAP

5. $\left. \begin{array}{l} \text{HUKEV} \\ \text{VEKUM} \\ \text{MÜKEV} \\ \text{HUZAM} \\ \text{KAVKE} \end{array} \right\} \left\{ \begin{array}{l} 32765 \\ 70576 \\ 94103 \\ 56743 \\ 94765 \end{array} \right.$

⇒ HUKEV = ?

- A) 94103 B) 94765 C) 56743
D) 70576 E) 32765

6. $\left. \begin{array}{l} \text{BÇAFH} \\ \text{ÇHFAB} \\ \text{ABÇHF} \\ \text{FABÇĞ} \\ \text{HFĞBÇ} \end{array} \right\} \left\{ \begin{array}{l} 64291 \\ 42936 \\ 93642 \\ 36129 \\ 29463 \end{array} \right.$

⇒ ABÇHF = ?

- A) 29463 B) 36129 C) 42936
D) 93642 E) 64291

TEST - 2

$$\begin{array}{l}
 7. \left. \begin{array}{l} \triangle \bullet \square \blacksquare \heartsuit \\ \heartsuit \triangle \bullet \square + \\ \bullet + \blacksquare \heartsuit \triangle \\ \square \blacksquare \times + \bullet \\ \blacksquare \heartsuit + \bullet \square \end{array} \right\} \begin{array}{l} 53047 \\ 75104 \\ 64753 \\ 36470 \\ 40536 \end{array}
 \end{array}$$

$$\Rightarrow \blacksquare \heartsuit + \bullet \square = ?$$

- A) 40536 B) 75104 C) 64753
D) 36470 E) 53047

$$8. \left. \begin{array}{l} \text{KURMA} \\ \text{HURMA} \\ \text{NUZPA} \\ \text{NURMA} \\ \text{ZARMA} \end{array} \right\} \begin{array}{l} 49865 \\ 09865 \\ 29865 \\ 15865 \\ 29135 \end{array}$$

$$\Rightarrow \text{NURMA} = ?$$

- A) 29865 B) 29135 C) 15865
D) 49865 E) 09865

$$9. \left. \begin{array}{l} \text{TANKE} \\ \text{ANETİ} \\ \text{İTŞİF} \\ \text{FETAN} \\ \text{NİAŞT} \end{array} \right\} \begin{array}{l} 23506 \\ 02315 \\ 36270 \\ 60768 \\ 85023 \end{array}$$

$$\Rightarrow \text{ANETİ} = ?$$

- A) 60768 B) 85023 C) 36270
D) 02315 E) 23506

$$10. \left. \begin{array}{l} \text{KEMKA} \\ \text{LİKUR} \\ \text{RELAN} \\ \text{NARİL} \\ \text{KİNAR} \end{array} \right\} \Rightarrow \text{LİKUR} = ?$$

- A) 92104 B) 43976 C) 67429
D) 12674 E) 13517

$$11. \left. \begin{array}{l} \bigcirc \triangle \blacksquare \star \square \\ \square \star \bigcirc \blacksquare \triangle \\ \star \triangle \square \blacksquare \bigcirc \\ \blacksquare \square \bigcirc \triangle \star \\ \star \bigcirc \triangle \square \blacksquare \end{array} \right\} \Rightarrow \star \bigcirc \triangle \square \blacksquare = ?$$

- A) 71395 B) 59137 C) 13579
D) 97153 E) 73951

$$12. \left. \begin{array}{l} \text{KARA} \\ \text{RANA} \\ \text{NARA} \\ \text{SENA} \\ \text{NAME} \end{array} \right\} \begin{array}{l} \triangle \bigcirc \\ \square \bigcirc \\ \bigcirc \blacksquare \\ \bigcirc \triangle \\ \star \triangle \end{array}$$

$$\Rightarrow \text{SEMENA} = ?$$

- A) $\blacksquare \square \bigcirc$ B) $\triangle \bigcirc \blacksquare$ C) $\bigcirc \blacksquare \square$
D) $\square \blacksquare \bigcirc$ E) $\triangle \square \blacksquare$

TEST - 2

13. $\left. \begin{array}{l} \text{KEMAN} \\ \text{NAYYÜ} \\ \text{KÜNAT} \\ \text{ÜKNAB} \\ \text{KESAM} \end{array} \right\} \Rightarrow \text{ÜKNAB} = ?$

- A) 10254 B) 16459 C) 45776
D) 10352 E) 61458

14. $\left. \begin{array}{l} \text{KIPER} \\ \text{SIRAN} \\ \text{KEPER} \\ \text{PEKEL} \\ \text{NEMEP} \end{array} \right\} \left\{ \begin{array}{l} 19098 \\ 12098 \\ 72865 \\ 59390 \\ 09194 \end{array} \right.$

$\Rightarrow \text{KIPER} = ?$

- A) 59390 B) 09194 C) 72865
D) 12098 E) 19098

15. $\left. \begin{array}{l} 75310 \\ 31312 \\ 45650 \\ 25852 \\ 81410 \end{array} \right\} \left\{ \begin{array}{l} \text{LİDİL} \\ \text{DAMAN} \\ \text{FİCAN} \\ \text{CACAL} \\ \text{MİYİN} \end{array} \right.$

$\Rightarrow 75310 = ?$

- A) LİDİL B) DAMAN C) FİCAN
D) CACAL E) MİYİN

16. $\left. \begin{array}{l} \text{AMASYA} \\ \text{SAMSUN} \\ \text{ANKARA} \\ \text{MARDİN} \\ \text{MANİSA} \end{array} \right\} \left\{ \begin{array}{l} 105920 \\ 107895 \\ 010230 \\ 201245 \\ 056070 \end{array} \right.$

$\Rightarrow \text{ANKARA} = ?$

- A) 107895 B) 105920 C) 201245
D) 010230 E) 056070

17. $\left. \begin{array}{l} \bigcirc \square \triangle \star + \\ \square \triangle \star + \bigcirc \\ \square \triangle \bigcirc \star + \\ \star + \triangle \square \bigcirc \\ + \star \square \triangle \bigcirc \end{array} \right\} \left\{ \begin{array}{l} 75319 \\ 31579 \\ 13759 \\ 97531 \\ 75931 \end{array} \right.$

$\Rightarrow \square \triangle \bigcirc \star + = ?$

- A) 31579 B) 97531 C) 75931
D) 13759 E) 75319

18. $\left. \begin{array}{l} \star \times + \\ \star + \times \\ \times \star + \\ + \times \star \end{array} \right\} = ?$

- A) 415 B) 451 C) 762 D) 584 E) 712
451 415 267 485 721
145 154 726 584 127
514 541 672 854 217

TEST - 2 ÇÖZÜMLER

$$1. \left. \begin{array}{l} \text{SAPNU} \\ \text{NAMKE} \\ \text{MADCE} \\ \text{CAPUN} \\ \text{DANEP} \end{array} \right\} \left\{ \begin{array}{l} 81372 \\ 91243 \\ 31567 \\ 51897 \\ 01234 \end{array} \Rightarrow P = 2$$

P = 2 ise $\text{DANEP} = 81372$
 $\Rightarrow D = 8, A = 1, N = 3, E = 7$
 N = 3 ise $\text{NAMKE} = 31567$

Cevap: C

$$2. \left. \begin{array}{l} \text{HİYYA} \\ \text{MEKKA} \\ \text{LEMNA} \\ \text{ŞAHH} \textcircled{İ} \\ \text{KAŞŞ} \textcircled{İ} \end{array} \right\} \left\{ \begin{array}{l} 76554 \\ 38224 \\ 18004 \\ 9477 \textcircled{6} \\ 2499 \textcircled{6} \end{array} \Rightarrow A = 4, İ = 6$$

İ = 6 ise $\text{HİYYA} = 76554$

Cevap: E

$$3. \left. \begin{array}{l} \text{NABAP} \\ \text{PÜCÜK} \\ \text{NAMAN} \\ \text{KİPCÜ} \\ \text{NAMKA} \end{array} \right\} \left\{ \begin{array}{l} 29534 \\ 87178 \\ 87675 \\ 87127 \\ 54342 \end{array} \right.$$

$\Rightarrow \text{NAMAN} = 87178$

Cevap: B

$$4. \left. \begin{array}{l} 37265 \\ 45831 \\ 42135 \\ 89136 \\ 15471 \end{array} \right\} \left\{ \begin{array}{l} \text{NÜPAM} \\ \text{KÇPAE} \\ \text{PEKZP} \\ \text{AZÇME} \Rightarrow P = 1, E = 5, K = 4 \\ \text{KENAP} \end{array} \right.$$

K = 4 ve E = 5 ise $45831 = \text{KENAP}$

Cevap: E

$$5. \left. \begin{array}{l} \text{HUKEV} \\ \text{VEKUM} \\ \text{MÜKEV} \\ \text{HUZAM} \\ \text{KAVKE} \end{array} \right\} \left\{ \begin{array}{l} 32765 \\ 70576 \\ 94103 \Rightarrow H = 9, K = 7 \\ 56743 \\ 94765 \end{array} \right.$$

H = 9 ve K = 7 ise $\text{HUKEV} = 94765$

Cevap: B

$$6. \left. \begin{array}{l} \cancel{B} \cancel{C} A F \cancel{H} \\ \cancel{C} H F A \cancel{B} \\ \textcircled{A} B \cancel{C} H \cancel{F} \\ \cancel{F} A B \textcircled{C} \cancel{G} \\ \cancel{H} F \textcircled{G} B \cancel{C} \end{array} \right\} \left\{ \begin{array}{l} \cancel{6} 4 2 9 \textcircled{1} \\ \textcircled{4} 2 9 3 \cancel{6} \\ \cancel{9} 3 6 4 \cancel{2} \\ \cancel{3} 6 1 2 \cancel{9} \\ \cancel{2} 9 4 6 \cancel{3} \end{array} \Rightarrow \begin{array}{l} A = 4 \\ \text{Ğ} = 1 \end{array}$$

Başta ve sonda
ortak olanlar
elenirse

Başta ve sonda
ortak olanlar
elenirse

A = 4 ise $\text{ABCHF} = 42936$

Cevap: C

TEST - 2 ÇÖZÜMLER

7. $\left\{ \begin{array}{l} \cancel{4} \bullet \square \blacksquare \heartsuit \\ \heartsuit \triangle \bullet \square + \\ \cancel{4} + \blacksquare \heartsuit \cancel{4} \\ \cancel{4} \blacksquare \times + \cancel{4} \\ \blacksquare \heartsuit + \bullet \cancel{4} \end{array} \right\} \left\{ \begin{array}{l} \cancel{5}304\cancel{7} \\ \cancel{7}510\cancel{4} \\ \cancel{6}475\cancel{3} \\ \cancel{3}647\cancel{0} \\ \cancel{4}053\cancel{7} \end{array} \right\} \Rightarrow \blacksquare = 5, + = 0$
- Baştan sondan ortak olanlar elenirse Baştan sondan ortak olanlar elenirse
- $\blacksquare = 5$ ise $\blacksquare \heartsuit + \bullet \square = 53047$

Cevap: E

8. $\left\{ \begin{array}{l} \text{KURMA} \\ \text{HURMA} \\ \text{NUZPA} \\ \text{NURMA} \\ \text{ZARMA} \end{array} \right\} \left\{ \begin{array}{l} 49865 \\ 09865 \\ 29865 \\ 15865 \\ 29135 \end{array} \right\} \Rightarrow N = 2, R = 8$
- $N = 2$ ve $R = 8$ ise $\text{NURMA} = 29865$

Cevap: A

9. $\left\{ \begin{array}{l} \cancel{7}\text{ANKE} \\ \text{ANET}\cancel{7} \\ \cancel{7}\text{İTŞİ}\cancel{7} \\ \cancel{7}\text{ETAN}\cancel{7} \\ \cancel{7}\text{İAŞT}\cancel{7} \end{array} \right\} \left\{ \begin{array}{l} \cancel{2}350\cancel{7} \\ \cancel{0}231\cancel{5} \\ \cancel{3}627\cancel{0} \\ \cancel{0}076\cancel{7} \\ \cancel{8}502\cancel{7} \end{array} \right\} \Rightarrow A = 2, E = 5$
- Baştan ve sondan ortak olanlar silinirse Baştan ve sondan ortak olanlar silinirse
- $A = 2$ ise $\Rightarrow \text{ANETİ} = 23506$

Cevap: E

10. $\left\{ \begin{array}{l} \text{KEMKA} \\ \text{LİKUR} \\ \text{RELAN} \\ \text{NARIL} \\ \text{KİNAR} \end{array} \right\} \left\{ \begin{array}{l} 92104 \\ 43976 \\ 67429 \\ 12674 \\ 13517 \end{array} \right\} \Rightarrow R = 4$
- $R = 4$ ise $\text{RELAN} = 43976 \Rightarrow L = 9$
- $L = 9$ ise $\text{LİKUR} = 92104$

Cevap: A

11. $\left\{ \begin{array}{l} \cancel{0} \triangle \blacksquare \star \cancel{4} \\ \cancel{4} \star \bigcirc \blacksquare \triangle \\ \star \triangle \square \blacksquare \cancel{4} \\ \cancel{4} \square \bigcirc \triangle \star \\ \star \bigcirc \triangle \square \cancel{4} \end{array} \right\} \left\{ \begin{array}{l} \cancel{0}139\cancel{5} \\ \cancel{5}913\cancel{7} \\ \cancel{1}357\cancel{9} \\ \cancel{9}715\cancel{3} \\ \cancel{7}395\cancel{1} \end{array} \right\} \Rightarrow \star = 7, \triangle = 3$
- Baştan sondan ortak olanlar elenirse Baştan sondan ortak olanlar elenirse
- $\star = 7$ ve $\triangle = 3$ ise $\star \bigcirc \triangle \square \blacksquare = 71395$

Cevap: A

12. $\left\{ \begin{array}{l} \text{KARA} \\ \text{RANA} \\ \text{NARA} \\ \text{SENA} \\ \text{NAME} \end{array} \right\} \left\{ \begin{array}{l} \triangle \bigcirc \\ \square \bigcirc \\ \bigcirc \blacksquare \\ \bigcirc \triangle \\ \star \triangle \end{array} \right\} \Rightarrow \text{RA} = \triangle$

 $\text{RA} = \triangle$ ise $\text{RANA} = \triangle \bigcirc \Rightarrow \text{NA} = \bigcirc$ $\text{NA} = \bigcirc$ ise $\text{NAME} = \bigcirc \blacksquare \Rightarrow \text{ME} = \blacksquare$ $\text{SENA} = \square \bigcirc \Rightarrow \text{SE} = \square$ O halde SEMENA = $\square \blacksquare \bigcirc$

Cevap: D

TEST - 2 ÇÖZÜMLER

$$\begin{array}{l}
 13. \text{ KEMAN} \\
 \text{NAYYÜ} \\
 \text{KÜNAT} \\
 \text{ÜKNAB} \\
 \text{KESAM}
 \end{array}
 \left\{
 \begin{array}{l}
 10254 \\
 16459 \\
 45776 \\
 10352 \\
 61458
 \end{array}
 \right.
 \Rightarrow Y = 7$$

Y = 7 ise NAYYÜ = 45776

$\Rightarrow N = 4, A = 5, Ü = 6$

Ü = 6 ise ÜKNAB = 61458

Cevap: E

$$\begin{array}{l}
 16. \text{ AMASYA} \\
 \text{SAMSUN} \\
 \text{ANKARA} \\
 \text{MARDİ} \\
 \text{MANİSA}
 \end{array}
 \left\{
 \begin{array}{l}
 105920 \\
 107895 \\
 010230 \\
 201245 \\
 056070
 \end{array}
 \right.
 \Rightarrow A = 0, N = 5$$

A = 0 ve N = 5 ise ANKARA = 056070

Cevap: E

$$\begin{array}{l}
 14. \text{ KIPER} \\
 \text{SİRAN} \\
 \text{KEPER} \\
 \text{PEKEL} \\
 \text{NEMEP}
 \end{array}
 \left\{
 \begin{array}{l}
 19098 \\
 12098 \\
 72865 \\
 59390 \\
 09194
 \end{array}
 \right.
 \Rightarrow E = 9, A = 6$$

A = 6 ise SİRAN = 72865 $\Rightarrow I = 2, R = 8$

I = 2 ve R = 8 ise KIPER = 12098

Cevap: D

$$\begin{array}{l}
 17. \text{ } \square \triangle \star + \\
 \square \triangle \star + \square \\
 \square \triangle \circ \star + \\
 \star + \triangle \square \square \\
 + \star \square \triangle \square
 \end{array}
 \left\{
 \begin{array}{l}
 75319 \\
 31579 \\
 13759 \\
 97531 \\
 75931
 \end{array}
 \right.
 \Rightarrow \square = 9$$

$\Rightarrow \square \triangle \square \star + = 75931$

Cevap: C

$$\begin{array}{l}
 15. 75310 \\
 31312 \\
 45650 \\
 25852 \\
 81410
 \end{array}
 \left\{
 \begin{array}{l}
 \text{LİDİL} \\
 \text{DAMAN} \\
 \text{FİCAN} \\
 \text{CACAL} \\
 \text{MİYİN}
 \end{array}
 \right.
 \Rightarrow C = 3, A = 1$$

C = 3 ve A = 1 ise 75310 = FİCAN

Cevap: C

$$\begin{array}{l}
 18. \star \times + \\
 \star + \times \\
 \times \star + \\
 + \times \star
 \end{array}
 \left\{
 \begin{array}{l}
 415 \\
 451 \\
 145 \\
 514
 \end{array}
 \right.$$

Cevap: A

TEST - 3

1. ★TASARI → IRASAT
 AKADEMİ ■ → AAEİKDM
 ★YAYINCILIK ■ → ★AIIYYNCLK → KLCNYYIIIA
 ★KAZANDIRIR ■ → ?
- A) IIAAKKDNE B) RRIIAAZDN
 C) RRZNDAAII D) RRDZNIIAA
 E) RRDNZKIIAA

2. TASARIYÖS → △○□○★+÷×□
 SAYATÖSRI → ?
- A) □○÷○△×□★+
 B) □○÷○△×□+★
 C) □○÷○×△+★□
 D) □○÷○△×+++★
 E) ○□÷△×+★□△

3. ÇÖZÜMLÜİQ → ?

- A) 123579586 B) 345689271
 C) 214376589 D) 765436219
 E) 754323891

4. Y Z M K D L K M Z F L Y D H
 ↓ ↓ ↓ ↓ ↓ ↓ → ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
 4 1 0 3 5 7 ? ? ? ? ? ? ? ?
- A) 30137456 B) 30154561
 C) 30187456 D) 30187451
 E) 30147456

5. 3 2 4 5 1 6 9 7 8
 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
 T S R I A K D E M

↓
 7 8 0 4 5 3 2 0 4 9 6 1
 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
 ? ? ? ? ? ? ? ? ? ? ? ?

- A) EMZRITSOKRZA B) EMTRITRDZKAT
 C) EMZRITSZRDKA D) EMZRITSORKAZ
 E) EMZRITRDZKAR

6. T P S E F O P E B T O E A P
 ↓ ↓ ↓ ↓ ↓ ↓ → ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
 4 1 7 3 2 5 ? ? ? ? ? ? ? ?

- A) 13645341 B) 13845381
 C) 13745691 D) 13845391
 E) 13545391

TEST - 3

7. $\left. \begin{array}{l} \text{ŞİLİ} \\ \text{EKİŞ} \\ \text{İBKE} \\ \text{EKİB} \\ \text{EKBI} \end{array} \right\} \Rightarrow \text{EKİŞ} = ?$

- A) 3421 B) 1202 C) 3452
D) 2543 E) 3425

8. $\left. \begin{array}{l} \text{EMEJ} \\ \text{EZEM} \\ \text{EKEM} \\ \text{EKET} \\ \text{EZEY} \end{array} \right\} \left\{ \begin{array}{l} 1417 \\ 1516 \\ 1413 \\ 1513 \\ 1312 \end{array} \right.$

$\Rightarrow \text{EMEJ} = ?$

- A) 1417 B) 1516 C) 1413
D) 1513 E) 1312

9. $\left. \begin{array}{l} \text{NACİ} \\ \text{İCAK} \\ \text{İTAN} \\ \text{YATİ} \\ \text{ACİÇ} \end{array} \right\} \left\{ \begin{array}{l} 4297 \\ 3429 \\ 9240 \\ 5469 \\ 9643 \end{array} \right.$

$\Rightarrow \text{İCAK} = ?$

- A) 4297 B) 3429 C) 9240
D) 5469 E) 9643

10. $\left. \begin{array}{l} \square \blacksquare \blacktriangle \star + \blacksquare \\ \blacktriangle \star + + \blacksquare \# \\ \times \blacksquare \blacktriangle \# \blacksquare \parallel \\ + \blacksquare \parallel \# \blacksquare + \\ \blacktriangle \blacksquare \square \triangle \# \blacksquare \end{array} \right\} \left\{ \begin{array}{l} \text{REPNE} \\ \text{ÇEPÜKE} \\ \text{PÜKKEN} \\ \text{PECANE} \\ \text{KEMNEK} \end{array} \right.$

$\Rightarrow \times \blacksquare \blacktriangle \# \blacksquare \parallel = ?$

- A) REPNE B) PÜKKEN C) PECANE
D) ÇEPÜKE E) KEMNEK

11. $\left. \begin{array}{l} 8778 \\ 3993 \\ 8899 \\ 3377 \\ 4884 \end{array} \right\} \left\{ \begin{array}{l} \star \triangle \triangle \star \\ \triangle \triangle \square \square \\ \bigcirc \bigcirc \bullet \bullet \\ \square \square \square \square \\ \triangle \bullet \bullet \triangle \end{array} \right.$

$\Rightarrow 3377 = ?$

- A) $\star \triangle \triangle \star$ B) $\triangle \triangle \square \square$ C) $\bigcirc \bigcirc \bullet \bullet$
D) $\square \square \square \square$ E) $\triangle \bullet \bullet \triangle$

12. $\left. \begin{array}{l} \star \square \star \\ \bullet \bullet \triangle \\ \blacksquare \star \star \\ \square \square \bullet \\ \square \triangle \triangle \end{array} \right\} \left\{ \begin{array}{l} 211 \\ 544 \\ 001 \\ 424 \\ 220 \end{array} \right.$

$\Rightarrow \star \square \star = ?$

- A) 220 B) 424 C) 001
D) 544 E) 211

TEST - 3

13. TEKAN	37914
NAPEK	67419
YAKEN	97813
NAPET	97814
TANEK	31479

⇒ NAPEK = ?

- A) 31479 B) 97813 C) 37914
D) 67419 E) 97814

14. KELİR	81930
KEHTE	71930
SITİM	01561
SEFIK	01234
MEFIK	73638

⇒ SEFIK = ?

- A) 01561 B) 01234 C) 73638
D) 71930 E) 81930

15. ☉☐↗↗	EMİÜ
#↗↗+	DİEÜ
☐#↗↓	ADEM
↗↗#↓	DEMA
☐↗↗☉	İEMN

⇒ ☐↗↗☉ = ?

- A) İEMN B) DEM A C) DİEÜ
D) ADEM E) EMİÜ

16. ASÜN	●★
ÜPAS	★●
ÜNLA	★□
LAAS	△□
LAÜN	□●

⇒ LAAS = ?

- A) □● B) △□ C) ★□
D) ★● E) ●★

17. KEY	▲■●
HAM	△□○
MEJ	□●■
EMA	+□○
LEY	●□×

⇒ MEJ = ?

- A) +□○ B) □●■ C) ●□×

D) ▲■● E) △□○

18. YASAL	20348
YİKAL	24648
SİLAY	30246
KİYAS	64802
SALİY	60842

⇒ SİLAY = ?

- A) 60842 B) 64802 C) 30246
D) 24648 E) 20348

TEST - 3 ÇÖZÜMLER

1. ★KAZANDIRIR■ → ★AAIIKZND RR
→ RRDNZKIIAA

Cevap: E

2.

T	A	S	R	I	Y	Ö	S
△	○	□	★	+	÷	×	□

⇒ SAYATÖSRI → □○÷○△×□★+

Cevap: A

3. ÇÖZÜMLÜIQ → 123579586

Cevap: A

4.

K	M	Z	F	L	Y	D	H
↓	↓	↓	↓	↓	↓	↓	↓
3	0	1	8	7	4	5	6

F ve H ; 0, 1, 3, 4, 5, 7 den farklı olmalı.

Cevap: C

5.

7	8	0	4	5	3	2	0	4	9	6	1
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
E	M	Z	R	I	T	S	Z	R	D	K	A

Cevap: C

6.

P	E	B	T	O	E	A	P
↓	↓	↓	↓	↓	↓	↓	↓
1	3	8	4	5	3	9	1

B ve A ; 1, 2, 3, 4, 5, 7 den farklı olmalı.

Cevap: D

7.

ŞİLİ	} {	3421	⇒ İ = 2
EKİŞ		1202	
İBKE		3452	
EKİB		2543	
EKBİ		3425	

İ = 2 ise İBKE = 2543 ⇒ B = 5 , K = 4 , E = 3

İ = 2 , K = 4 ve E = 3 ise EKİŞ = 3421

Cevap: A

8.

EMEJ	} {	1417	⇒ M = 3 , E = 1
EZEM		1516	
EKEM		1413	
EKET		1513	
EZEY		1312	

M = 3 ve E = 1 ise EMEJ = 1312

Cevap: E

TEST - 3 ÇÖZÜMLER

$$9. \left. \begin{array}{l} \text{NACİ} \\ \text{İCAK} \\ \text{İTAN} \\ \text{YATİ} \\ \text{ACİÇ} \end{array} \right\} \left\{ \begin{array}{l} 4297 \\ 3429 \\ 9240 \Rightarrow \text{İ} = 9, \text{A} = 4 \\ 5469 \\ 9643 \end{array} \right.$$

$$\text{İ} = 9 \text{ ise } \text{ACİÇ} = 4297 \Rightarrow \text{C} = 2$$

$$\text{İ} = 9, \text{A} = 4 \text{ ve } \text{C} = 2 \text{ ise } \text{İCAK} = 9240$$

Cevap: C

$$10. \left. \begin{array}{l} \square \blacksquare \blacktriangle \star + \blacksquare \\ \blacktriangle \star + + \blacksquare \# \\ \times \blacksquare \blacktriangle \# \blacksquare \parallel \\ + \blacksquare \parallel \# \blacksquare + \\ \blacktriangle \blacksquare \square \triangle \# \blacksquare \end{array} \right\} \left\{ \begin{array}{l} \text{REPNEM} \\ \text{ÇEPÜKE} \\ \text{PÜKKEN} \\ \text{PECANE} \Rightarrow \# = \text{N} \\ \text{KEMNEK} \end{array} \right.$$

$$\# = \text{N} \text{ ise } \blacktriangle \blacksquare \square \triangle \# \blacksquare = \text{PECANE}$$

$$\Rightarrow \blacktriangle = \text{P}, \blacksquare = \text{E}, \square = \text{C}, \triangle = \text{A}$$

$$\# = \text{N}, \blacksquare = \text{E}, \blacktriangle = \text{P}$$

$$\Rightarrow \times \blacksquare \blacktriangle \# \blacksquare \parallel = \text{REPNEM}$$

Cevap: A

$$11. \left. \begin{array}{l} 8778 \\ 3993 \\ 8899 \\ 3377 \\ 4884 \end{array} \right\} \left\{ \begin{array}{l} (\star) \triangle \triangle \star \\ \triangle \triangle \square \square \\ \bigcirc \bigcirc \bullet \bullet \\ \bigcirc \square \square \bigcirc \\ \triangle \bullet \bullet \triangle \end{array} \right.$$

$$8 \text{ ve } 3 \quad \bigcirc \text{ ve } \triangle \text{ sembolleri} \Rightarrow \star = 4$$

$$\text{ikişer tane} \quad \text{ikişer tane}$$

$$\star = 4 \text{ ise } 4884 = \star \triangle \triangle \star \Rightarrow \triangle = 8$$

$$\triangle = 8 \text{ ise } 8778 = \triangle \bullet \bullet \triangle \Rightarrow \bullet = 7$$

$$\bullet = 7 \text{ ise } 3377 = \bigcirc \bigcirc \bullet \bullet$$

Cevap: C

$$12. \left. \begin{array}{l} \star \square \star \\ \bullet \bullet \triangle \\ \blacksquare \star \star \\ \square \square \bullet \\ \square \triangle \triangle \end{array} \right\} \left\{ \begin{array}{l} 211 \\ 544 \\ 001 \Rightarrow \square = 2 \\ 424 \\ 220 \end{array} \right.$$

$$\square = 2 \text{ ise } \star \square \star = 424$$

Cevap: B

$$13. \left. \begin{array}{l} \text{TEKAN} \\ \text{NAPEK} \\ \text{YAKEN} \\ \text{NAPET} \\ \text{TANEK} \end{array} \right\} \left\{ \begin{array}{l} 37914 \\ 67419 \\ 97813 \Rightarrow \text{T} = 3, \text{N} = 9, \text{A} = 7 \\ 97814 \quad \text{P} = 8, \text{E} = 1 \\ 31479 \end{array} \right.$$

$$\text{N} = 9, \text{A} = 7, \text{P} = 8, \text{E} = 1 \text{ ise } \text{NAPEK} = 97814$$

Cevap: E

$$14. \left. \begin{array}{l} \text{KELIR} \\ \text{KEHTE} \\ \text{SİTIM} \\ \text{SEFIK} \\ \text{MEFIK} \end{array} \right\} \left\{ \begin{array}{l} 81930 \\ 71930 \\ 01561 \Rightarrow \text{E} = 1, \text{I} = 3, \text{F} = 9 \\ 01234 \\ 73638 \end{array} \right.$$

$$\text{E} = 1, \text{F} = 9, \text{I} = 3 \text{ ise } \text{SEFIK} = 71930$$

Cevap: D

TEST - 3 ÇÖZÜMLER

$$15. \left. \begin{array}{l} \odot \square \triangle \times \\ \# \triangle \times + \\ \square \# \triangle \downarrow \\ \triangle \times \# \downarrow \\ \square \triangle \times \odot \end{array} \right\} \left\{ \begin{array}{l} \text{EMIÜ} \\ \text{DİEÜ} \\ \text{ADEM} \Rightarrow \square = \text{D} \\ \text{DEMA} \\ \text{İEMN} \end{array} \right.$$

$$\square = \text{D} \text{ ise } \odot \square \triangle \times = \text{ADEM}$$

$$\Rightarrow \odot = \text{A}, \triangle = \text{E}, \times = \text{M}$$

$$\odot = \text{A} \text{ ise } \square \triangle \times \odot = \text{DEMA}$$

Cevap: B

$$16. \left. \begin{array}{l} \text{ASÜN} \\ \text{ÜPAS} \\ \text{ÜNLA} \\ \text{LAAS} \\ \text{LAÜN} \end{array} \right\} \left\{ \begin{array}{l} \bullet \star \\ \star \bullet \\ \star \square \Rightarrow \text{LA} = \star \\ \triangle \square \\ \square \bullet \end{array} \right.$$

$$\text{LA} = \star \text{ ise } \text{ÜNLA} = \bullet \star \Rightarrow \text{ÜN} = \bullet$$

$$\text{ÜN} = \bullet \text{ ise } \text{ASÜN} = \square \bullet \Rightarrow \text{AS} = \square$$

$$\text{LA} = \star \text{ ise } \text{AS} = \square \text{ ise } \text{LAAS} = \star \square$$

Cevap: C

$$17. \left. \begin{array}{l} \text{KEY} \\ \text{HAM} \\ \text{MEJ} \\ \text{EMA} \\ \text{LEY} \end{array} \right\} \left\{ \begin{array}{l} \blacktriangle \blacksquare \bullet \\ \triangle \square \circ \\ \square \bullet \blacksquare \Rightarrow \text{M} = \bullet \\ + \square \circ \\ \bullet \square \times \end{array} \right.$$

$$\text{M} = \bullet \Rightarrow \text{MEJ} = \bullet \square \times$$

Cevap: C

$$18. \left. \begin{array}{l} \text{YASAL} \\ \text{YİKAL} \\ \text{SİLAY} \\ \text{KİYAS} \\ \text{SALİY} \end{array} \right\} \left\{ \begin{array}{l} \underline{20348} \\ \underline{24648} \\ \underline{30246} \Rightarrow \text{I} = 0 \\ \underline{64802} \\ \underline{60842} \end{array} \right.$$

$$\text{I} = 0 \text{ ise } \text{SALİY} = \underline{64802}$$

$$\Rightarrow \text{S} = 6, \text{A} = 4, \text{L} = 8, \text{Y} = 2$$

$$\text{S} = 6 \text{ ve } \text{I} = 0 \text{ ise } \text{SİLAY} = \underline{60842}$$

Cevap: A

TASARI AKADEMİ YAYINLARI

SAYI DİZİLERİ (NUMERICAL SERIES)

TEST - 1

1. 1, 3, 7, 15, 31, 63, ...

- A) 72 B) 125 C) 127 D) 128 E) 132

2. 3, 10, 24, 45, 73, ...

- A) 104 B) 108 C) 116 D) 120 E) 126

3. 6, 11, 9, 14, 12, 17, x, y

$$\Rightarrow x + y = ?$$

- A) 28 B) 32 C) 33 D) 35 E) 42

4. 5, 1, 7, 3, 21, 17, 119, ...

- A) 115 B) 117 C) 124 D) 136 E) 147

5. 3, 4, 4, 6, 12, 15, 45, 49, ...

- A) 71 B) 94 C) 184 D) 196 E) 212

6. 187, 183, 61, 57, 19, 15, 5, ...

- A) $\frac{5}{3}$ B) 1 C) 2 D) 3 E) 0

7. 1, 2, 5, 14, 41, 122, 365, ...

- A) 927 B) 1000 C) 1014
D) 1094 E) 1098

8. 3, 8, 11, 19, 30, 49, 79, ...

- A) 117 B) 128 C) 136 D) 139 E) 141

9. 211, 174, 142, 115, 93, ...

- A) 76 B) 77 C) 79 D) 81 E) 87

10. 17, 19, 24, 32, 43, 57, ...

- A) 57 B) 68 C) 72 D) 74 E) 78

TEST - 1

11. 3, 15, 10, 40, 36, 108, 105, ...

- A) 210 B) 200 C) 180 D) 175 E) 160

12. 7, 8, 12, 21, 37, 62, 98, ...

- A) 141 B) 147 C) 149 D) 152 E) 169

13. 2, 6, 15, 34, 73, 152, 311, ...

- A) 640 B) 540 C) 512 D) 466 E) 471

14. 8, 9, 7, 21, 25, 20, 120, ...

- A) 122 B) 127 C) 136 D) 144 E) 156

15. 3, 5, 9, 17, 33, 65, ...

- A) 112 B) 118 C) 121 D) 129 E) 134

16. 3, 10, 31, 94, 283, 850, ...

- A) 2447 B) 2547 C) 2551
-
- D) 2554 E) 2654

17. 3, 7, 17, 43, 113, x

- A) 303 B) 307 C) 311 D) 327 E) 336

18. 3, 3, 6, 18, 72, 360, ...

- A) 1840 B) 1920 C) 2000 D) 2100 E) 2160

19. 11, 8, 16, ..., 26, 23, 46

- A) 11 B) 13 C) 14 D) 16 E) 21

20. 1, 3, 9, 11, ..., 35, 105, 107, ...

- A) 33, 321 B) 33, 311 C) 30, 321
-
- D) 27, 311 E) 24, 321

TEST - 1 ÇÖZÜMLER

1. 1, 3, 7, 15, 31, 63, x

$$\begin{array}{ccccccc} & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow \\ +2 & +4 & +8 & +16 & +32 & +64 & \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \\ 2^1 & 2^2 & 2^3 & 2^4 & 2^5 & (2^6) & \end{array}$$

$$\Rightarrow x = 63 + 64 = 127$$

Cevap: C

2. 3, 10, 24, 45, 73, x

$$\begin{array}{ccccccc} & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \\ +7 & +14 & +21 & +28 & +35 & & \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \\ 7.1 & 7.2 & 7.3 & 7.4 & 7.5 & & \end{array}$$

$$\Rightarrow x = 73 + 35 = 108$$

Cevap: B

3. 6, 11, 9, 14, 12, 17, x, y

$$\begin{array}{ccccccc} & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow \\ +5 & -2 & +5 & -2 & +5 & -2 & +5 \end{array}$$

$$\Rightarrow x = 17 - 2 = 15$$

$$y = x + 5 = 15 + 5 = 20$$

$$\Rightarrow x + y = 15 + 20 = 35$$

Cevap: D

4. 5, 1, 7, 3, 21, 17, 119, x

$$\begin{array}{ccccccc} & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow \\ -4 & \times 7 & -4 & \times 7 & -4 & \times 7 & -4 \end{array}$$

$$\Rightarrow x = 119 - 4 = 115$$

Cevap: A

5. 3, 4, 4, 6, 12, 15, 45, 49, x

$$\begin{array}{ccccccc} & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow \\ +1 & \times 1 & +2 & \times 2 & +3 & \times 3 & +4 & \times 4 \end{array}$$

$$\Rightarrow x = 49 \times 4 = 196$$

Cevap: D

6. 187, 183, 61, 57, 19, 15, 5, x

$$\begin{array}{ccccccc} & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow \\ -4 & \times \frac{1}{3} & -4 & \times \frac{1}{3} & -4 & \times \frac{1}{3} & -4 \end{array}$$

$$\Rightarrow x = 5 - 4 = 1$$

Cevap: B

7. 1, 2, 5, 14, 41, 122, 365, x

$$\begin{array}{ccccccc} & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow \\ +3^0 & +3^1 & +3^2 & +3^3 & +3^4 & +3^5 & +3^6 \end{array}$$

$$\Rightarrow x = 365 + 3^6 = 365 + 729 = 1094$$

Cevap: D

8. 3, 8, 11, 19, 30, 49, 79, x

$$\begin{array}{ccccccc} & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 3+8 & 11+19 & 30+49 & & & & \\ 8+11 & 19+30 & 49+79 & & & & \end{array}$$

$$\Rightarrow x = 49 + 79 = 128$$

Cevap: B

9. 211, 174, 142, 115, 93, x

$$\begin{array}{ccccccc} & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow \\ -37 & -32 & -27 & -22 & -17 & & \\ & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow \\ -5 & -5 & -5 & -5 & & & \end{array}$$

$$\Rightarrow x = 93 - 17 = 76$$

Cevap: A

10. 17, 19, 24, 32, 43, 57, x

$$\begin{array}{ccccccc} & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow \\ +2 & +5 & +8 & +11 & +14 & +17 & \\ & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow \\ +3 & +3 & +3 & +3 & +3 & & \end{array}$$

$$\Rightarrow x = 57 + 17 = 74$$

Cevap: D

TEST - 1 ÇÖZÜMLER

11. 3, 15, 10, 40, 36, 108, 105, x

$$\begin{array}{ccccccc} & \nearrow & \searrow & \nearrow & \searrow & \nearrow & \searrow \\ & \times 5 & -5 & \times 4 & -4 & \times 3 & -3 \\ & & & & & & \times 2 \end{array}$$

$$\Rightarrow x = 105 \times 2 = 210$$

Cevap: A

12. 7, 8, 12, 21, 37, 62, 98, x

$$\begin{array}{ccccccc} & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow \\ & +1^2 & +2^2 & +3^2 & +4^2 & +5^2 & +6^2 \\ & & & & & & +7^2 \end{array}$$

$$\Rightarrow x = 98 + 7^2 = 98 + 49 = 147$$

Cevap: B

13. 2, 6, 15, 34, 73, 152, 311, x

$$\begin{array}{ccccccc} & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow \\ & (+4) & (+9) & (+19) & (+39) & (+79) & (+159) \\ & & & & & & \nearrow \\ & & & & & & +5.1 \\ & & & & & & +5.2 \\ & & & & & & +5.4 \\ & & & & & & +5.8 \\ & & & & & & +5.16 \\ & & & & & & +5.32 \end{array}$$

$$\Rightarrow x = 311 + 5.32 = 311.160 = 471$$

Cevap: E

14. 8, 9, 7, 21, 25, 20, 120, x

$$\begin{array}{ccccccc} & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow \\ & +1 & -2 & \times 3 & +4 & -5 & \times 6 \\ & & & & & & +7 \end{array}$$

$$\Rightarrow x = 120 + 7 = 127$$

Cevap: B

15. 3, 5, 9, 17, 33, 65, x

$$\begin{array}{ccccccc} & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & 2.(5) - 1 & & 2.(17) - 1 & & 2.(65) - 1 \\ & \downarrow & & \downarrow & & \downarrow \\ & 2.(3) - 1 & & 2.(9) - 1 & & 2.(33) - 1 \\ & & & & & & \Rightarrow x = 2.65 - 1 = 129 \end{array}$$

Cevap: D

16. 3, 10, 31, 94, 283, 850, x

$$\begin{array}{ccccccc} & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow \\ & +7.3^0 & +7.3^1 & +7.3^2 & +7.3^3 & +7.3^4 & +7.3^5 \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & +7 & +21 & +63 & +189 & +567 & +1701 \end{array}$$

$$\Rightarrow x = 850 + 1701 = 2551$$

Cevap: C

17. 3, 7, 17, 43, 113, x

$$\begin{array}{ccccccc} & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow \\ & 3(3) - 2 & 3(7) - 2^2 & 3(17) - 2^3 & 3(43) - 2^4 & 3(113) - 2^5 \end{array}$$

$$\Rightarrow x = 3.113 - 2^5 = 339 - 32 = 307$$

Cevap: B

18. 3, 3, 6, 18, 72, 360, x

$$\begin{array}{ccccccc} & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow \\ & \times 1 & \times 2 & \times 3 & \times 4 & \times 5 & \times 6 \end{array}$$

$$\Rightarrow x = 360 \times 6 = 2160$$

Cevap: E

19. 11, 8, 16, x, 26, 23, 46

$$\begin{array}{ccccccc} & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow \\ & -3 & \times 2 & -3 & \times 2 & -3 & \times 2 \end{array}$$

$$\Rightarrow x = 16 - 3 = 13$$

Cevap: B

20. 1, 3, 9, 11, x, 35, 105, 107, y

$$\begin{array}{ccccccc} & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow \\ & +2 & \times 3 & +2 & \times 3 & +2 & \times 3 \end{array}$$

$$\Rightarrow x = 11 \times 3 = 33$$

$$y = 107 \times 3 = 321$$

Cevap: A

TEST - 2

1. 4, 10, 17, ?, 34, 44, 55

- A) 25 B) 26 C) 27 D) 28 E) 29

2. 11, 3, 13, 32, 15, ?, 35

- A) 12 B) 13 C) 25 D) 32 E) 33

3. 2, 3, 5, 8, ?, 21, 34, 55

- A) 7 B) 8 C) 13 D) 17 E) 19

4. 1, 4, 0, 5, 20, 16, ?, 84, 80, 85

- A) 48 B) 42 C) 32 D) 24 E) 21

5. 2, 36, $2\sqrt{2}$, 100, $2\sqrt{3}$, 196, ...

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

6. 47 14

49 18

23 3

29 ?

- A) 2 B) 9 C) 11 D) 18 E) 24

7. 3 13 13

5 21 23

9 37 ?

11 ? 53

- A) 39, 22 B) 28, 45 C) 43, 45
D) 41, 42 E) 36, 45

8. 5 4 1 8

7 3 3 7

3 11 1 13

1 5 7 ?

- A) -4 B) -1 C) 1 D) 4 E) 9

TEST - 2

9.

3	8	40	35
3	10	70	63
3	12	108	99
3	?	?	?

- A) 14, 35, 42 B) 12, 24, 42 C) 16, 48, 144
D) 12, 70, 63 E) 14, 154, 143

10.

12	9	54
14	8	56
?	3	42

- A) 14 B) 28 C) 16 D) 24 E) 32

11.

3	7	3	24
5	1	8	13
7	2	1	?

- A) 8 B) 10 C) 12 D) 15 E) 18

12.

4	2	8	16
5	3	15	45
1	3	3	9
2	3	?	?

- A) 5 - 12 B) 6 - 18 C) 3 - 18
D) 2 - 18 E) 9 - 12

13.

2	4	5	1 →	6, 6
7	1	4	3 →	8, 7
3	0	0	5 →	?

- A) 30, 5 B) 3, 5 C) 30, 05
D) 3, 7 E) 13, 5

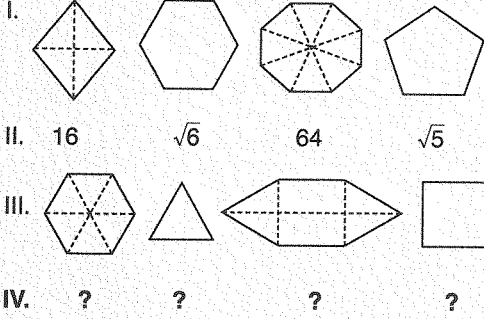
14. I.

3	3	1	?	-1	-3	-7
-5	-5	-3	?	-3	-9	-5

- A) 6 - 2 B) 2 - 6 C) 4 - (-6)
D) (-2) - 6 E) 2 - (-6)

TEST - 2

15. I ve II nolu diziler arasındaki bağıntı III nolu dizi ile seçeneklerin hangisi arasında bulunmaktadır?



- A) 36, $\sqrt{3}$, 16, 4 B) $\sqrt{5}$, 4, 16, 4
 C) $\sqrt{6}$, 9, $\sqrt{6}$, 16 D) 25, 16, 2, 16
 E) 36, $\sqrt{3}$, 36, 2

16. 71 (70) 69
 213 (?) 137

- A) 170 B) 175 C) 210 D) 215 E) 230

17. 111 (20) 71
 119 (?) 73

- A) 19 B) 20 C) 23 D) 27 E) 34

18. 28 (80) 17
 41 (?) 23

- A) 25 B) 24 C) 23 D) 22 E) 21

19. 7 (169) 6
 11 (?) 3

- A) 99 B) 111 C) 121 D) 144 E) 196

20. 147 (13) 113
 121 (?) 119

- A) 12 B) 16 C) 17 D) 19 E) 21

TEST - 2 ÇÖZÜMLER

1. 4, 10, 17, x, 34, 44, 55
 $+6 \quad +7 \quad +8 \quad +9 \quad +10 \quad +11$

$$\Rightarrow x = 17 + 8 = 25$$

Cevap: A

2. 11, 3, 13, 32, 15, ab, 35
 $\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$
 $1+1=2 \quad 1+3=4 \quad 3+2=5 \quad a+b=7 \quad 3+5=8$

$$\Rightarrow a + b = 7 \Rightarrow ab = 25$$

Cevap: C

3. $a_1 \quad a_2 \quad a_3 \quad a_4 \quad a_5 \quad a_6 \quad a_7 \quad a_8$
 2 3 5 8 x 21 34 55

$$\Rightarrow a_n = a_{n-1} + a_{n-2}$$

$$a_3 = a_2 + a_1 = 3 + 2 = 5$$

$$a_4 = a_3 + a_2 = 5 + 3 = 8$$

$$a_5 = a_4 + a_3 = 8 + 5 = 13 = x$$

Cevap: C

4. 1, 4, 0, 5, 20, 16, x, 84, 80, 85
 $\times 4 \quad -4 \quad +5 \quad \times 4 \quad -4 \quad +5 \quad \times 4 \quad -4 \quad +5$

$$\Rightarrow x = 16 + 5 = 21$$

Cevap: E

5. 2, 36, $2\sqrt{2}$, 100, $2\sqrt{3}$, 196, x
 $\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$
 $\sqrt{4} \quad 6^2 \quad \sqrt{8} \quad 10^2 \quad \sqrt{12} \quad 14^2 \quad \sqrt{16}$

$$\Rightarrow x = \sqrt{16} = 4$$

Cevap: B

6. $\boxed{4}7 \xrightarrow{\frac{4}{2} \cdot 7 = 14} 14$

$\boxed{4}9 \xrightarrow{\frac{4}{2} \cdot 9 = 18} 18$

$\boxed{2}3 \xrightarrow{\frac{2}{2} \cdot 3 = 3} 3$

$\boxed{2}9 \xrightarrow{\frac{2}{2} \cdot 9 = 9} 9$

Cevap: B

7. $\boxed{3} \xrightarrow{\boxed{3} \cdot 4 + 1 = 13} 13$
 $\boxed{3} \cdot 5 - 2 = 13$

$\boxed{5} \xrightarrow{\boxed{5} \cdot 4 + 1 = 21} 21$
 $\boxed{5} \cdot 5 - 2 = 23$

$\boxed{9} \xrightarrow{\boxed{9} \cdot 4 + 1 = 37} x$
 $\boxed{9} \cdot 5 - 2 = x \Rightarrow x = 43$

$\boxed{11} \xrightarrow{\boxed{11} \cdot 4 + 1 = 45} y$
 $\boxed{11} \cdot 5 - 2 = y \Rightarrow y = 45$

Cevap: C

8. $5 + 4 - 1 = 8$
 $7 + 3 - 3 = 7$
 $3 + 11 - 1 = 13$
 $1 + 5 - 7 = -1$

Cevap: B

TEST - 2 ÇÖZÜMLER

9. $3 \xrightarrow{+5} 8 \xrightarrow{\times 5} 40 \xrightarrow{-5} 35$
 $3 \xrightarrow{+7} 10 \xrightarrow{\times 7} 70 \xrightarrow{-7} 63$
 $3 \xrightarrow{+9} 12 \xrightarrow{\times 9} 108 \xrightarrow{-9} 99$
 $3 \xrightarrow{+11} x \xrightarrow{\times 11} y \xrightarrow{-11} z$
 $\Rightarrow x = 3 + 11 = 14$
 $y = x \cdot 11 = 14 \cdot 11 = 154$
 $z = y - 11 = 154 - 11 = 143$

Cevap: E

10. $12 \quad 9 \quad 54 \rightarrow \frac{12}{2} \cdot 9 = 54$
 $14 \quad 8 \quad 56 \rightarrow \frac{14}{2} \cdot 8 = 56$
 $x \quad 3 \quad 42 \rightarrow \frac{x}{2} \cdot 3 = 42$
 $\Rightarrow \frac{x}{2} \cdot 3 = \frac{14}{2} \cdot 8 \rightarrow x = 28$

Cevap: B

11. $3 \quad 7 \quad 3 \quad 24 \rightarrow 3 \cdot 7 + 3 = 24$
 $5 \quad 1 \quad 8 \quad 13 \rightarrow 5 \cdot 1 + 8 = 13$
 $7 \quad 2 \quad 1 \quad x \rightarrow 7 \cdot 2 + 1 = x$
 $\Rightarrow x = 7 \cdot 2 + 1 = 15$

Cevap: D

12. $4 \quad 2 \quad 8 \quad 16$
 $\downarrow \quad \downarrow$
 $5 \quad 3 \quad 15 \quad 45$
 $\downarrow \quad \downarrow$
 $1 \quad 3 \quad 3 \quad 9$
 $\downarrow \quad \downarrow$
 $2 \quad 3 \quad x \quad y$
 $\downarrow \quad \downarrow$
 $2.3 \quad 3.x$
 $\Rightarrow x = 2 \cdot 3 = 6$
 $y = 3 \cdot x = 3 \cdot 6 = 18$

Cevap: B

13. $2 \quad 4 \quad 5 \quad 1 \rightarrow (2+4), (5+1) \rightarrow 6,6$
 $7 \quad 1 \quad 4 \quad 3 \rightarrow (7+1), (4+3) \rightarrow 8,7$
 $3 \quad 0 \quad 0 \quad 5 \rightarrow (3+0), (0+5) \rightarrow 3,5$

Cevap: B

14. I. $3 \quad 3 \quad 1 \quad x \quad -1 \quad -3 \quad -7$
 $\xrightarrow{x1} \xrightarrow{-2} \xrightarrow{x2} \xrightarrow{-3} \xrightarrow{x3} \xrightarrow{-4}$

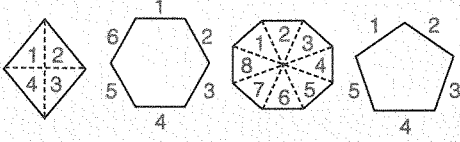
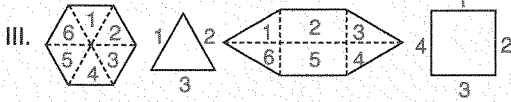
II. $-5 \quad -5 \quad -3 \quad y \quad -3 \quad -9 \quad -5$
 $\xrightarrow{x1} \xrightarrow{+2} \xrightarrow{x2} \xrightarrow{+3} \xrightarrow{x3} \xrightarrow{+4}$

$\Rightarrow x = 1 \times 2 = 2$
 $y = -3 \times 2 = -6$

Cevap: E

TEST - 2 ÇÖZÜMLER

15. I.

II. 4^2 , $\sqrt{6}$, 8^2 , $\sqrt{5}$ IV. $6^2 = 36$, $\sqrt{3}$, $6^2 = 36$, $\sqrt{4} = 2$

Cevap: E

$$16. \quad 71 \quad (70) \quad 69 \rightarrow (70) = \frac{71 + 69}{2}$$

$$213 \quad (x) \quad 137 \rightarrow (x) = \frac{213 + 137}{2}$$

$$\Rightarrow (x) = \frac{213 + 137}{2} = \frac{350}{2} = 175$$

Cevap: B

$$17. \quad 111 \quad (20) \quad 71 \rightarrow (20) = \frac{111 - 71}{2}$$

$$119 \quad (x) \quad 73 \rightarrow (x) = \frac{119 - 73}{2}$$

$$\Rightarrow (x) = \frac{119 - 73}{2} = \frac{46}{2} = 23$$

Cevap: C

$$18. \quad 28 \quad (80) \quad 17 \rightarrow (80) = (2 + 8) \cdot (1 + 7)$$

$$41 \quad (x) \quad 23 \rightarrow (x) = (4 + 1) \cdot (2 + 3)$$

$$\Rightarrow (x) = (4 + 1) \cdot (2 + 3) = 5 \cdot 5 = 25$$

Cevap: A

$$19. \quad 7 \quad (169) \quad 6 \rightarrow (169) = (7 + 6)^2$$

$$11 \quad (x) \quad 3 \rightarrow (x) = (11 + 3)^2$$

$$\Rightarrow (x) = (11 + 3)^2 = 14^2 = 196$$

Cevap: E

$$20. \quad 147 \quad (13) \quad 113 \rightarrow (13) = \frac{147 + 113}{20}$$

$$121 \quad (x) \quad 119 \rightarrow (x) = \frac{121 + 119}{20}$$

$$\Rightarrow (x) = \frac{121 + 119}{20} = \frac{240}{20} = 12$$

Cevap: A

TEST - 3

1. 2160, 360, ..., 18, 6, 3

- A) 240 B) 180 C) 120 D) 72 E) 36

2. 11, 22, ..., 5, 10, -2, -1

- A) 11 B) 10 C) 9 D) 7 E) 5

3. 5, 7, ..., 11, 7, 15, 8, ..., 9

- A) 7, 23 B) 6, 21 C) 7, 19
-
- D) 6, 17 E) 6, 19

4. 7, 12, 19, 30, 47, 74, 117, ...

- A) 147 B) 162 C) 168 D) 172 E) 186

5. 8, 7, 12, 15, 16, 23, 20, 31, ..., ...

- A) 24, 39 B) 22, 38 C) 24, 36
-
- D) 22, 39 E) 26, 36

6. 13, 11, 13, 13, 17, 17, 25, 19, 37, ..., ...

- A) 21, 51 B) 20, 52 C) 23, 53
-
- D) 21, 54 E) 23, 51

TASARI AKADEMİ YAYINLARI

7. 5, 5, 10, 13, 25, 29, 50, 53, 85, 85, ...

- A) 125, 125 B) 150, 170 C) 130, 125
-
- D) 125, 130 E) 130, 135

I:	?	12	24	48	96
II:	3	6	?	38	84

- A) 3, 24 B) 4, 16 C) 6, 16
-
- D) 7, 16 E) 7, 21

TEST - 3

9.

3	9	27	81	243
15	36	?	162	?

- A) 72, 243 B) 54, 486 C) 81, 243
D) 62, 240 E) 81, 246

10.

?	14	22	42	74
24	?	30	84	82

- A) 14, 22 B) 16, 28 C) 12, 28
D) 12, 24 E) 16, 28

11. I:

63	53	44	?	29
----	----	----	---	----

II:

126	106	88	?	58
-----	-----	----	---	----

- A) 36, 72 B) 30, 76 C) 24, 72
D) 36, 84 E) 42, 81

12. I:

4	7	16	43	?
---	---	----	----	---

II:

5	11	29	83	?
---	----	----	----	---

- A) 112, 243 B) 124, 243 C) 114, 243
D) 124, 245 E) 120, 245

13. I:

3	11	27	19	54	?
---	----	----	----	----	---

II:

4	13	31	?	80	121
---	----	----	---	----	-----

- A) 87, 27 B) 81, 21 C) 85, 25
D) 89, 25 E) 89, 27

14. $\frac{3360}{35}, \frac{480}{28}, \frac{80}{22}, \frac{16}{17}, \dots$

- A) $\frac{64}{13}$ B) $\frac{32}{12}$ C) $\frac{8}{12}$ D) $\frac{1}{6}$ E) $\frac{4}{13}$

15. $\frac{6}{36}, \frac{18}{12}, \frac{36}{6}, \frac{3}{72}, \dots$

- A) $\frac{2}{216}$ B) $\frac{1}{216}$ C) $\frac{124}{12}$ D) $\frac{216}{1}$ E) $\frac{216}{2}$

16. $\frac{212}{77}, \frac{88}{106}, \frac{110}{101}, \frac{116}{55}, \dots$

- A) $\frac{59}{133}$ B) $\frac{56}{130}$ C) $\frac{59}{130}$ D) $\frac{26}{133}$ E) $\frac{47}{127}$

TEST - 3

17. I:

7	9	?	21	17
21	?	33	63	51
26	32	38	?	56

- A) 11, 20, 68 B) 11, 27, 65 C) 11, 27, 68
D) 15, 27, 68 E) 18, 11, 126

18. I: 5 15 13 39 37 111
II: 3 12 9 36 33 132
III: 1 4 3 12 11 44
IV: ? ? ? ? ? ?

- A) 6 30 28 112 110 440
B) 1 5 3 15 13 75
C) 7 35 30 150 147 735
D) 7 35 33 165 163 815
E) 5 20 18 72 70 280

19. I: 21 14 19 12 17 10
II: 13 18 11 16 9 14
III: 8 5 13 10 18 15
IV: ? ? ? ? ? ?

- A) 5 2 10 7 15 12
B) 7 15 12 20 17 25
C) 7 15 12 21 18 29
D) 5 2 10 8 15 12
E) 7 4 12 9 17 14

20. I: 1 4 8 32 36
II: 64 16 12 3 -1
III: 7 35 40 200 205
IV: ? ? ? ? ?

- A) 100 20 15 3 -2
B) 100 50 45 9 4
C) 100 20 10 5 1
D) 100 20 15 3 -1
E) 50 40 20 10 5

TEST - 3 ÇÖZÜMLER

1. 2160, 360, x, 18, 6, 3

$$\begin{array}{cccccc} & \nearrow & & \nearrow & & \nearrow \\ & \times \frac{1}{6} & & \times \frac{1}{5} & & \times \frac{1}{4} \\ & \searrow & & \searrow & & \searrow \\ & \times \frac{1}{3} & & \times \frac{1}{2} & & \end{array}$$

$$\Rightarrow x = 360 \times \frac{1}{5} = 72$$

Cevap: D

2. 11, 22, x, 5, 10, -2, -1

$$\begin{array}{cccccc} & \nearrow & & \nearrow & & \nearrow \\ & \times 2 & & -12 & & \times \frac{1}{2} \\ & \searrow & & \searrow & & \searrow \\ & \times 2 & & -12 & & \times \frac{1}{2} \end{array}$$

$$\Rightarrow x = 22 - 12 = 10$$

Cevap: B

3. 5, 7, x, 11, 7, 15, 8, y, 9

$$\begin{array}{cccccc} & \nearrow & & \nearrow & & \nearrow \\ & +4 & & +4 & & +4 \\ & \searrow & & \searrow & & \searrow \\ & +1 & & +1 & & +1 \end{array}$$

$$\Rightarrow x = 5 + 1 = 6$$

$$y = 15 + 4 = 19$$

Cevap: E

4. 7, 12, 19, 30, 47, 74, 117, x

$$\begin{array}{cccccc} & \downarrow & & \downarrow & & \downarrow \\ 7 + 12 - 0 & & 19 + 30 - 2 & & 47 + 74 - 4 & & \\ & \downarrow & & \downarrow & & \downarrow \\ 12 + 19 - 1 & & 30 + 47 - 3 & & 74 + 117 - 5 & & \end{array}$$

$$\Rightarrow x = 74 + 117 - 5 = 186$$

Cevap: E

5. 8, 7, 12, 15, 16, 23, 20, 31, x, y

$$\begin{array}{cccccc} & \nearrow & & \nearrow & & \nearrow \\ & +8 & & +8 & & +8 \\ & \searrow & & \searrow & & \searrow \\ & +4 & & +4 & & +4 \end{array}$$

$$\Rightarrow x = 20 + 4 = 24$$

$$y = 31 + 8 = 39$$

Cevap: A

6. 13, 11, 13, 13, 17, 17, 25, 19, 37, x, y

$$\begin{array}{cccccc} & \nearrow & & \nearrow & & \nearrow \\ & +2 & & +4 & & +2 \\ & \searrow & & \searrow & & \searrow \\ & +0 & & +4 & & +8 \\ & \searrow & & \searrow & & \searrow \\ & +12 & & +16 & & \end{array}$$

$$\Rightarrow x = 19 + 4 = 23$$

$$y = 37 + 16 = 53$$

Cevap: C

7. 5, 5, 10, 13, 25, 29, 50, 53, 85, 85, x, y

$$\begin{array}{cccccc} & \nearrow & & \nearrow & & \nearrow \\ & +8.1 & & +8.2 & & +8.3 \\ & \searrow & & \searrow & & \searrow \\ & +5.1 & & +5.3 & & +5.5 \\ & \downarrow & & \downarrow & & \downarrow \\ & +5 & & +15 & & +25 \\ & \downarrow & & \downarrow & & \downarrow \\ & +35 & & +45 & & \end{array}$$

$$\Rightarrow x = 85 + 45 = 130$$

$$y = 85 + 40 = 125$$

Cevap: C

8. $12 - 6 = \textcircled{6}$ $48 - 38 = \textcircled{10}$

I:	x	12	24	48	96
II:	3	6	y	38	84

$$\begin{array}{ccc} \downarrow & \downarrow & \downarrow \\ x - 3 = \textcircled{4} & 24 - y = \textcircled{8} & 96 - 84 = \textcircled{12} \\ x = 7 & y = 16 & \end{array}$$

Cevap: D

9.

3	9	27	81	243
15	36	x	162	y

$$\begin{array}{ccccc} \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 3.(5) & 9.(4) & 27.(3) & 81.(2) & 243.(1) \end{array}$$

$$\Rightarrow x = 27.3 = 81$$

$$y = 243.1 = 243$$

Cevap: C

TEST - 3 ÇÖZÜMLER

10.

x	14	22	42	74
24	y	30	84	82

$$\begin{array}{ccccc} \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ x + (8) = 24 & 14 \times (2) & 22 + (8) & 42 \times (2) & 74 + (8) \end{array}$$

$$\Rightarrow x + 8 = 24, x = 16$$

$$14 \times 2 = y, y = 28$$

Cevap: B

11.

	-10	-9	-8	-7	
	↖	↖	↖	↖	
63 x 2 ↖	63	53	44	x	29
	126	106	88	y	58
					29 x 2 ↗

$$\Rightarrow x = 44 - 8 = 36$$

$$y = 2 \cdot x = 2 \cdot 36 = 72$$

Cevap: A

12.

	+3 ¹	+3 ²	+3 ³	+3 ⁴	
	↗	↗	↗	↗	
2.(4) - 3 = 5 ↗	4	7	16	43	x
	5	11	29	83	y

$$2(7) - 3 = 11$$

$$2(43) - 3 = 83$$

$$2(16) - 3 = 29$$

$$\Rightarrow x = 43 + 3^4 = 43 + 81 = 124$$

$$y = 2 \cdot (x) - 3 = 2 \cdot 124 - 3 = 245$$

Cevap: D

13.

3	11	27	19	54	x
4	13	31	y	80	121

$$\begin{array}{ccccc} \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 4 - 3 = 2^0 & 13 - 11 = 2^1 & 31 - 27 = 2^2 & y - 19 = 2^3 & 121 - x = 2^5 \end{array}$$

$$\begin{array}{ccc} 26 - 54 = 2^4 & & \end{array}$$

$$\Rightarrow 121 - x = 2^5, 121 - x = 32, x = 89$$

$$\Rightarrow y - 19 = 2^6, y - 19 = 64, y = 83$$

Cevap: E

14.

	$\times \frac{1}{7}$	$\times \frac{1}{6}$	$\times \frac{1}{5}$	$\times \frac{1}{4}$	
	↖	↖	↖	↖	
$\frac{3360}{35}$	$\frac{480}{28}$	$\frac{80}{22}$	$\frac{16}{17}$	$\frac{x}{y}$	
	-7	-6	-5	-4	

$$\Rightarrow x = 16 \times \frac{1}{4} = 4$$

$$y = 17 - 4 = 13$$

Cevap: E

15.

$\frac{6}{x2}$	$\frac{12}{x3}$	$\frac{36}{x2}$	$\frac{72}{x3}$	$\frac{x}{x3}$
	↖	↖	↖	↖
$\frac{36}{x\frac{1}{2}}$	$\frac{18}{x\frac{1}{3}}$	$\frac{6}{x\frac{1}{2}}$	$\frac{3}{x\frac{1}{3}}$	$\frac{y}{x\frac{1}{3}}$

$$\Rightarrow x = 72 \times 3 = 216$$

$$y = 3 \cdot \frac{1}{3} = 1$$

Cevap: D

TEST - 3 ÇÖZÜMLER

16. $212 \xrightarrow{\times \frac{1}{2}} 106 \xrightarrow{+4} 110 \xrightarrow{\times \frac{1}{2}} 55 \xrightarrow{+4} x$
 $77 \xrightarrow{+11} 88 \xrightarrow{+13} 101 \xrightarrow{+15} 116 \xrightarrow{+17} y$
 $\Rightarrow x = 55 + 4 = 59$
 $y = 116 + 17 = 133$

Cevap: A

17. $73 = 21$

7	9	x	21	17
21	y	33	63	51
26	32	38	z	56

 $173 = 51$
 $21+5 = 26$ $51+5 = 56$
 $\Rightarrow 9.3 = y, y = 27$
 $x.3 = 33, x = 11$
 $63 + 5 = z, z = 68$

Cevap: C

18. $5 \xrightarrow{\times 3} 15 \xrightarrow{-2} 13 \xrightarrow{\times 3} 39 \xrightarrow{-2} 37 \xrightarrow{\times 3} 111$
 $3 \xrightarrow{\times 4} 12 \xrightarrow{-3} 9 \xrightarrow{\times 4} 36 \xrightarrow{-3} 33 \xrightarrow{\times 4} 132$
 $1 \xrightarrow{\times 4} 4 \xrightarrow{-1} 3 \xrightarrow{\times 4} 12 \xrightarrow{-1} 11 \xrightarrow{\times 4} 44$
 $? \xrightarrow{+x} ? \xrightarrow{-y} ? \xrightarrow{+x} ? \xrightarrow{-y} ? \xrightarrow{+x} ?$
 $\Rightarrow x3 \xrightarrow{+1} x4$
 $\Rightarrow -2 \xrightarrow{-1} -3$
 $\Rightarrow x4 \xrightarrow{+1} x5$
 $\Rightarrow -1 \xrightarrow{-1} -2$
D) $7 \xrightarrow{\times 5} 35 \xrightarrow{-2} 33 \xrightarrow{\times 5} 165 \xrightarrow{-2} 163 \xrightarrow{\times 5} 815$

Cevap: D

19. $21 \xrightarrow{-7} 14 \xrightarrow{+5} 19 \xrightarrow{-7} 12 \xrightarrow{+5} 17 \xrightarrow{-7} 10$
 $13 \xrightarrow{+5} 18 \xrightarrow{-7} 11 \xrightarrow{+5} 16 \xrightarrow{-7} 9 \xrightarrow{+5} 14$
 $8 \xrightarrow{-3} 5 \xrightarrow{+8} 13 \xrightarrow{-3} 10 \xrightarrow{+8} 18 \xrightarrow{-3} 15$
 $? \xrightarrow{x} ? \xrightarrow{y} ? \xrightarrow{x} ? \xrightarrow{y} ? \xrightarrow{x} ?$
 $\Rightarrow x = +8, y = -3$

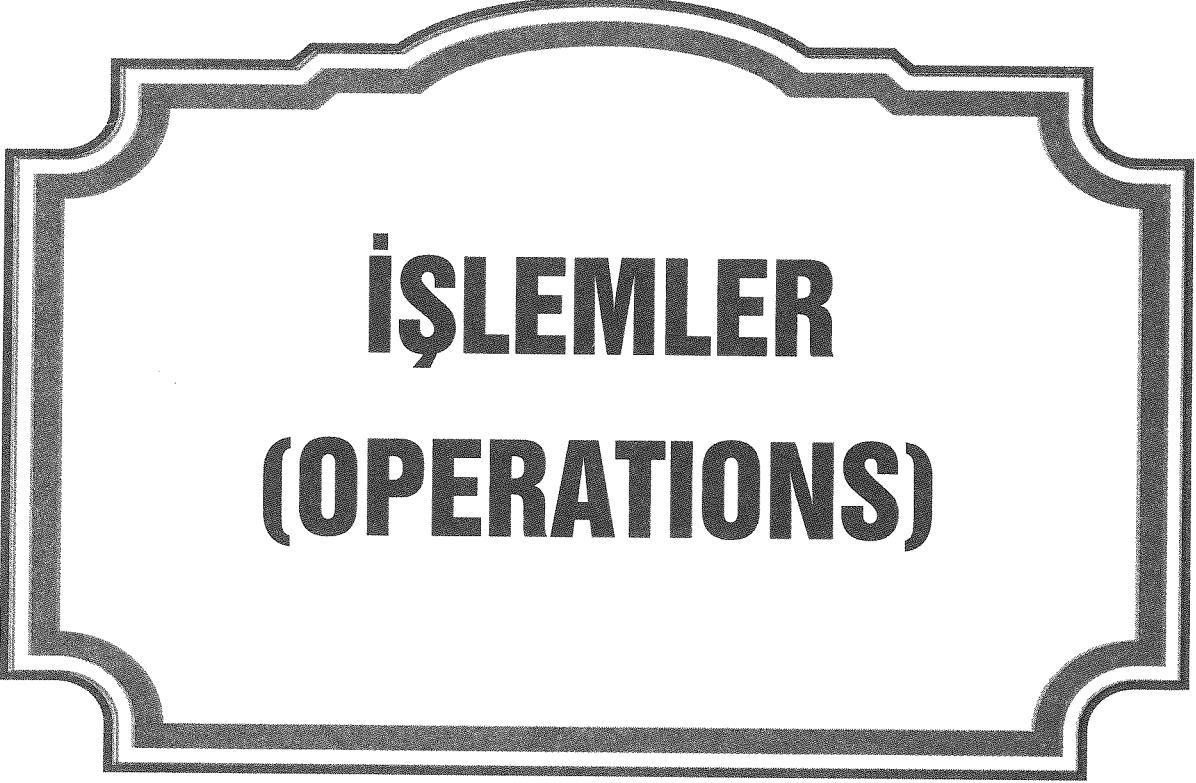
B) $7 \xrightarrow{+8} 15 \xrightarrow{-3} 12 \xrightarrow{+8} 20 \xrightarrow{-3} 17 \xrightarrow{+8} 25$

Cevap: B

20. $1 \xrightarrow{\times 4} 4 \xrightarrow{+4} 8 \xrightarrow{\times 4} 32 \xrightarrow{+4} 36$
 $64 \xrightarrow{+4} 16 \xrightarrow{-4} 12 \xrightarrow{+4} 3 \xrightarrow{-4} -1$
 $7 \xrightarrow{\times 5} 35 \xrightarrow{+5} 40 \xrightarrow{\times 5} 200 \xrightarrow{+5} 205$
 $? \xrightarrow{x} ? \xrightarrow{y} ? \xrightarrow{x} ? \xrightarrow{y} ?$
 $\Rightarrow x = +5, y = -5$

A) $100 \xrightarrow{+5} 20 \xrightarrow{-3} 15 \xrightarrow{+5} 3 \xrightarrow{-3} -2$

Cevap: A



İŞLEMLER (OPERATIONS)

TEST - 1

1. $5 \triangle 3 \rightarrow 2^5 + (5.3) + 2^3$

$3 \triangle 5 \rightarrow ?$

- A) 52 B) 55 C) 72 D) 75 E) 85

2. $3x \star y = x - y$

$x \bullet y = x.y$

$(21 \star 3) \bullet 5 = ?$

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

3. $x \bullet y = \frac{3}{x} - \frac{2}{y}$

$x \triangle y = \frac{2x + 3y}{8}$

$(3 \bullet 2) \triangle 16 = ?$

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

4. $x \triangle y = \sqrt{x.y}$

$x \square y = \frac{3x - 2y}{2}$

$(4 \triangle 9) \square (6 \triangle 24) = ?$

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

5. $x \star y = x^2 - y^2$

$2001 \star 2000 = ?$

- A) 1 B) 4001 C) 40001
-
- D) 20001 E) 40004

6. I. $x \star y = (x - y)(x^2 + xy + y^2)$

II. $a \star 5 = 91$

$\Rightarrow a = ?$

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

7. I. $a \odot b = a^2 + 2ab + b^2$

II. $a \boxtimes b = 3a^2 - 6ab + 3b^2$

III. $(2 \odot 0) \boxtimes (1 \odot 3) = ?$

- A) 216 B) 324 C) 344 D) 412 E) 432

8. I. $a \star b = \sqrt[b]{a}$

II. $a \odot b = a^b$

III. $(32 \star 5) \odot (-8 \star 3) = ?$

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

TEST - 1

9. I. $a \diamond b = 2a + b^2$

II. $a^3 \bullet \sqrt{b} = a - \frac{b}{3}$

III. $(125 \bullet 3) \diamond 5 = ?$

- A) 21 B) 25 C) 29 D) 33 E) 36

10. I. $x \star y = y \boxplus (x + y)$

II. $x \boxplus y = \frac{x - y^2}{x - y}$

III. $4 \star 1 = ?$

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

11. I. $\frac{4a}{7} \otimes (b - 1) = \frac{a + 3}{2} - 4b$

II. $4 \otimes 5 = ?$

- A) -20 B) -19 C) -18 D) -15 E) 15

12. I. $\sqrt{x} \square \sqrt[3]{y} = \sqrt[4]{x} - \sqrt[6]{y}$

II. $8 \square 8 = ?$

- A) 0 B)
- $\sqrt{2}$
- C)
- $2\sqrt{2}$
- D)
- $2\sqrt[3]{4}$
- E)
- $\sqrt[6]{2}$

13. I. $a \star b = a^2 - 3b$

II. $a \square b = 5a - b^2$

III. $(2 \star 3) + (2 \square 1) = ?$

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

14. $a, b \in \mathbb{R}^+$

I. $a^2 \triangle \frac{b}{2} = \frac{a}{3} + 3b$

II. $\frac{a}{5} \bullet b^3 = 3a - \frac{b}{3}$

III. $(25 \triangle 2) - (0 \bullet 1) = ?$

- A) 11 B) 12 C) 13 D) 14 E) 15

TEST - 1

15. I. $(2a + 1) \triangle (3b - 1) = a^2 - b^3$

II. $(3a - 1) \bullet (2b + 1) = 2a - 3b$

III. $(7 \triangle 2) + (5 \bullet 5) = ?$

- A) 16 B) 14 C) 12 D) 10 E) 6

16. I. $x \oplus y = \frac{\frac{1}{x} + \frac{1}{y}}{\frac{1}{x \cdot y}}$

II. $2 \oplus 5 = ?$

- A) $\frac{1}{10}$ B) $\frac{3}{10}$ C) 7 D) 3 E) 1

17. $x, y \in \mathbb{R}^+$

I. $x^3 \triangle y^2 = 2x + 3y$

II. $27 \triangle 25 = 21$

III. $8 \triangle 64 = ?$

- A) 22 B) 24 C) 26 D) 28 E) 32

18. I. $2.x \triangle 3.y = 3.x + 2.y$

II. $3.x \square 2.y = 3.x + 2.y$

III. $(4 \triangle 6) \square 8 = ?$

- A) 6 B) 8 C) 10 D) 12 E) 18

19. I. $x \blacksquare y = 5.(x \bullet y) + 1$

II. $x \bullet y = 3x - y^2 + 1$

III. $2 \blacksquare 3 = ?$

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

20. I. $a \star b = \frac{a \cdot b}{a + \frac{b}{3}}$

II. $a \odot b = \sqrt[b]{a}$

III. $1 \star (4 \odot 2) = ?$

- A) $\frac{1}{5}$ B) $\frac{6}{5}$ C) 2 D) $\frac{11}{5}$ E) 3

TEST - 1 ÇÖZÜMLER

1. $3 \triangle 5 = 2^3 + (3.5) + 2^5 = 8 + 15 + 32 = 55$

Cevap: B

2. $3x \star y = x - y = 7 - 3 = 4$

$3x = 21 \quad y = 3$

$x = 7$

$\Rightarrow (21 \star 3) \bullet 5 = 4 \bullet 5$

$x \bullet y = x.y = 4.5 = 20$

$\downarrow \quad \downarrow$
4 5

Cevap: D

3. $x \bullet y = \frac{3}{x} - \frac{2}{y} = \frac{3}{3} - \frac{2}{2} = 1 - 1 = 0$

$\downarrow \quad \downarrow$
3 2

$\Rightarrow (3 \bullet 2) \triangle 16 = 0 \triangle 16$

$x \triangle y = \frac{2x + 3y}{8} = \frac{2.0 + 3.16}{8} = \frac{48}{8} = 6$

$\downarrow \quad \downarrow$
0 16

Cevap: C

4. $x \triangle y = \sqrt{x.y} = \sqrt{4.9} = \sqrt{36} = 6$

$\downarrow \quad \downarrow$
4 9

$x \triangle y = \sqrt{x.y} = \sqrt{6.24} = \sqrt{144} = 12$

$\downarrow \quad \downarrow$
6 24

$\Rightarrow (4 \triangle 9) \square (6 \triangle 24) = 6 \square 12$

$x \square y = \frac{3x - 2y}{2} = \frac{3.6 - 2.12}{2} = \frac{18 - 24}{2} = \frac{-6}{2} = -3$

$\downarrow \quad \downarrow$
6 12

Cevap: A

5. $x \star y = x^2 - y^2$

$\downarrow \quad \downarrow$
2001 2000

$= (x - y)(x + y)$

$= (2001 - 2000)(2001 + 2000) = 4001$

Cevap: B

6. $x \star y = (x - y)(x^2 + xy + y^2) = x^3 - y^3$

$x \star y = x^3 - y^3 = a^3 - 5^3 = 91$

$\downarrow \quad \downarrow$
a 5

$a^3 - 125 = 91$

$a^3 = 216$

$\Rightarrow a = 6$

Cevap: D

7. $a \odot b = a^2 + 2ab + b^2 = (a + b)^2 = (2 + 0)^2 = 4$

$\downarrow \quad \downarrow$
2 0

$a \odot b = (a + b)^2 = (1 + 3)^2 = 16$

$\downarrow \quad \downarrow$
1 3

$\Rightarrow (2 \odot 0) \boxtimes (1 \odot 3) = 4 \boxtimes 16$

$a \boxtimes b = 3(a^2 - 2ab + b^2) = 3(a - b)^2 = 3.(4 - 16)^2 = 432$

$\downarrow \quad \downarrow$
4 16

Cevap: E

8. $a \star b = \sqrt[b]{a} = \sqrt[5]{32} = \sqrt[5]{2^5} = 2$

$\downarrow \quad \downarrow$
32 5

$a \star b = \sqrt[b]{a} = \sqrt[3]{-8} = \sqrt[3]{-2^3} = -2$

$\downarrow \quad \downarrow$
-8 3

$\Rightarrow (32 \star 5) \odot (-8 \star 3) = 2 \odot -2$

$a \odot b = a^b = 2^{-2} = \frac{1}{4}$

$\downarrow \quad \downarrow$
2 -2

Cevap: D

TEST - 1 ÇÖZÜMLER

$$9. a^3 \bullet \sqrt{b} = a - \frac{b}{3} = 5 - \frac{9}{3} = 5 - 3 = 2$$

↓

$$a^3 = 125 \quad \sqrt{b} = 3$$

$$a = 5 \quad b = 9$$

$$\Rightarrow (125 \bullet 3) \diamond 5 = 2 \diamond 5$$

$$a \diamond b = 2a + b^2 = 2 \cdot 2 + 5^2 = 4 + 25 = 29$$

↓

$$2 \quad 5$$

Cevap: C

$$10. x \star y = y \boxplus (x + y)$$

↓

$$4 \quad 1 \quad 1 \quad 4 \quad 1$$

$$\Rightarrow 4 \star 1 = 1 \boxplus 5$$

$$x \boxplus y = \frac{x - y^2}{x - y} = \frac{1 - 5^2}{1 - 5} = \frac{1 - 25}{1 - 5} = \frac{-24}{-4} = 6$$

$$\downarrow \quad \downarrow$$

$$1 \quad 5$$

Cevap: D

$$11. \frac{4a}{7} \otimes (b-1) = \frac{a+3}{2} - 4b = \frac{7+3}{2} - 4 \cdot 6$$

↓

$$\frac{4a}{7} = 4$$

$$a = 7$$

$$b - 1 = 5$$

$$b = 6$$

$$= 5 - 24$$

$$= -19$$

Cevap: B

$$12. \sqrt{x} \square \sqrt[3]{y} = 4\sqrt{x} - 6\sqrt[3]{y} = 4\sqrt{8^2} - 6\sqrt[3]{8^3}$$

↓

$$\sqrt{x} = 8$$

$$x = 8^2$$

$$\sqrt[3]{y} = 8$$

$$y = 8^3$$

$$= \sqrt{8} - \sqrt{8} = 0$$

Cevap: A

$$13. a \star b = a^2 - 3b = 22 - 3 \cdot 3 = 4 - 9 = -5$$

↓

$$2 \quad 3$$

$$a \square b = 5a - b^2 = 5 \cdot 2 - 1^2 = 10 - 1 = 9$$

↓

$$2 \quad 1$$

$$\Rightarrow (2 \star 3) + (2 \square 1) = -5 + 9 = 4$$

Cevap: C

$$14. a^2 \triangle \frac{b}{2} = \frac{a}{3} + 3b = \frac{5}{3} + 3 \cdot 4 = \frac{5}{3} + 12 = \frac{41}{3}$$

↓

$$a^2 = 25$$

$$a = 5$$

$$\frac{b}{2} = 2$$

$$b = 4$$

$$\frac{a}{5} \bullet b^3 = 3a - \frac{b}{3} = 3 \cdot 0 - \frac{1}{3} = -\frac{1}{3}$$

↓

$$\frac{a}{5} = 0$$

$$a = 0$$

$$b^3 = 1$$

$$b = 1$$

$$\Rightarrow (25 \triangle 2) - (0 \bullet 1) = \frac{41}{3} - \left(-\frac{1}{3}\right) = \frac{41}{3} + \frac{1}{3}$$

$$= \frac{42}{3} = 14$$

Cevap: D

TEST - 1 ÇÖZÜMLER

$$15. (2a + 1) \triangle (3b - 1) = a^2 - b^3 = 3^2 - 1^3 = 9 - 1 = 8$$

$$\begin{array}{l} \downarrow \quad \quad \downarrow \\ 2a + 1 = 7 \quad 3b - 1 = 2 \\ 2a = 6 \quad 3b = 3 \\ a = 3 \quad b = 1 \end{array}$$

$$(3a - 1) \bullet (2b + 1) = 2a - 3b = 2 \cdot 2 - 3 \cdot 2 = -2$$

$$\begin{array}{l} \downarrow \quad \quad \downarrow \\ 3a - 1 = 5 \quad 2b + 1 = 5 \\ 3a = 6 \quad 2b = 4 \\ a = 2 \quad b = 2 \end{array}$$

$$\Rightarrow (7 \triangle 2) + (5 \bullet 5) = 8 + (-2) = 6$$

Cevap: E

$$16. x \oplus y = \frac{\frac{1}{x} + \frac{1}{y}}{\frac{1}{x \cdot y}} = \frac{\frac{1}{2} + \frac{1}{5}}{\frac{1}{2 \cdot 5}} = \frac{\frac{7}{10}}{\frac{1}{10}} = \frac{7}{10} \cdot \frac{10}{1} = 7$$

Cevap: C

$$17. x^3 \triangle y^2 = 2x + 3y = 2 \cdot 3 + 3 \cdot 5 = 21$$

$$\begin{array}{l} \downarrow \quad \quad \searrow \\ x^3 = 27 \quad y^2 = 25 \\ x = 3 \quad y = 5 \end{array}$$

$$\Rightarrow x^3 \triangle y^2 = 2x + 3y = 2 \cdot 2 + 3 \cdot 8 = 4 + 24 = 28$$

$$\begin{array}{l} \downarrow \quad \downarrow \\ x^3 = 8 \quad y^2 = 64 \\ x = 2 \quad y = 8 \end{array}$$

Cevap: D

$$18. 2.x \triangle 3.y = 3.x + 2.y = 3 \cdot 2 + 2 \cdot 2 = 10$$

$$\begin{array}{l} \downarrow \quad \quad \searrow \\ 2x = 4 \quad 3y = 6 \\ x = 2 \quad y = 2 \end{array}$$

$$\Rightarrow (4 \triangle 6) \square 8 = 10 \square 8$$

$$3.x \square 2.y = 3.x + 2.y = 10 + 8 = 18$$

$$\begin{array}{l} \downarrow \quad \quad \searrow \\ 3x = 10 \quad 2y = 8 \end{array}$$

Cevap: E

$$19. x \blacksquare y = 5 \cdot (x \bullet y) + 1$$

$$\begin{array}{l} \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \\ 2 \quad 3 \quad 2 \quad 3 \end{array}$$

$$\Rightarrow 2 \blacksquare 3 = 5(2 \bullet 3) + 1$$

$$2 \blacksquare 3 = 5(3 \cdot 2 - 3^2 + 1) + 1$$

$$2 \blacksquare 3 = 5(6 - 9 + 1) + 1$$

$$2 \blacksquare 3 = 5(-2) + 1$$

$$2 \blacksquare 3 = -10 + 1$$

$$2 \blacksquare 3 = -9$$

Cevap: A

$$20. a \odot b = b\sqrt{a} = 2\sqrt{4} = 2$$

$$\begin{array}{l} \downarrow \quad \downarrow \\ 4 \quad 2 \end{array}$$

$$\Rightarrow 1 \star (4 \odot 2) = 1 \star 2$$

$$a \star b = \frac{a \cdot b}{a + \frac{b}{3}} = \frac{1 \cdot 2}{1 + \frac{2}{3}} = \frac{2}{\frac{5}{3}} = \frac{6}{5}$$

$$\begin{array}{l} \downarrow \quad \downarrow \\ 1 \quad 2 \end{array}$$

Cevap: B

TEST - 2

1. I. $(x.y - 1) \blacktriangle (3x - 1) = x^y + 5$

II. $5 \blacktriangle 8 = ?$

- A) 8 B) 9 C) 12 D) 14 E) 16

2. I. $(x^5 - 1) \blacktriangle (x + y - 2) = x^2 + y^3 - x.y$

II. $242 \blacktriangle 4 = ?$

- A) 3 B) 9 C) 18 D) 27 E) 81

3. I. $\frac{1}{x-1} \odot \frac{x+y}{y-1} = x.y$

II. $\frac{1}{2} \odot 5 = ?$

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

4. I. $\sqrt{\frac{a+1}{a-15}} \boxplus \sqrt{b} = a^b - b^a$

II. $3 \boxplus 1 = ?$

- A) 16 B) 34 C) 121 D) 179 E) 289

5. I. $\frac{x-1}{x+1} \heartsuit \frac{y^3+1}{9} = 2x - 3y$

II. $3 \heartsuit 1 = ?$

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

6. I. $x \bullet y = x^4 + 2xy + y^2$

II. $\sqrt{3} \bullet \sqrt{12} = ?$

- A) $8\sqrt{3}$ B) $16\sqrt{2}$ C) 32 D) 33 E) 36

7. I. $(a!) \blacktriangle (b-1) = 2a - b$

II. $a \star (b+1) = \frac{a-b}{2}$

III. $(6 \blacktriangle 3) \star (120 \blacktriangle 4) = ?$

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

8. I. $\frac{x}{y} \star (x+y) = 2x^2 - 3y + x.y$

II. $2 \star 9 = ?$

- A) 81 B) 78 C) 72 D) 64 E) 27

TEST - 2

9. I. $x \odot y = 2x - 3y$

II. $10 \odot m = m \odot 5$

III. $m = ?$

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

10. I. $x \blacktriangle y = 2x - 5y$

II. $x \blacksquare y = 7x + 3y$

III. $a \blacktriangle 2 = 5 \blacksquare a$

IV. $a = ?$

- A) -24 B) -32 C) -35 D) -40 E) -45

11. I. $17 \otimes 25 = 80$

II. $23 \otimes 17 = 35$

III. $72 \otimes 23 = 54$

IV. $34 \otimes 11 = ?$

- A) 45 B) 32 C) 24 D) 14 E) 7

12. I. $\triangle 7 = 25$

II. $\triangle 5 = 9$

III. $\triangle 13 = 121$

IV. $\triangle 9 = ?$

- A) 25 B) 36 C) 49 D) 54 E) 64

13. I. $\odot 5 = 19$

II. $\odot 6 = 23$

III. $\odot 7 = 27$

IV. $\odot 8 = ?$

- A) 26 B) 27 C) 29 D) 31 E) 34

14. I. $6 \heartsuit 9 = 27$

II. $8 \heartsuit 10 = 40$

III. $10 \heartsuit 11 = ?$

- A) 35 B) 40 C) 45 D) 55 E) 65

TEST - 2

15. I. $8 \bullet 3 = 13$

II. $11 \bullet 4 = 33$

III. $9 \bullet 5 = 34$

IV. $10 \bullet 6 = ?$

- A) 49 B) 47 C) 45 D) 43 E) 41

16. I. $1 \triangle 5 \bigcirc 2 = 3$

II. $13 \triangle 3 \bigcirc 4 = 4$

III. $21 \triangle 7 \bigcirc 7 = ?$

- A) 3 B) 4 C) 7 D) 11 E) 14

17. I. $24 \boxdot 3 = 2$

II. $71 \boxdot 2 = 4$

III. $91 \boxdot 2 = ?$

- A) 4 B) 5 C) 6 D) 13 E) 17

18. I. $\triangle 83 = 2$

II. $\triangle 79 = 7$

III. $\triangle 82 = 1$

IV. $\triangle 75 = ?$

- A) 12 B) 8 C) 6 D) 4 E) 3

19. I. $\nearrow 231 = 7$

II. $\nearrow 425 = 11$

III. $\nearrow 714 = 3$

IV. $\nearrow 349 = ?$

- A) 26 B) 34 C) 38 D) 64 E) 72

20. I. $\nabla 317 = 28$

II. $\nabla 412 = 10$

III. $\nabla 504 = 20$

IV. $\nabla 732 = ?$

- A) 12 B) 20 C) 23 D) 24 E) 32

TEST - 2 ÇÖZÜMLER

1. $(x \cdot y - 1) \blacktriangle (3x - 1) = x^y + 5 = 3^2 + 5 = 9 + 5 = 14$

$$\begin{array}{l} \downarrow \qquad \qquad \downarrow \\ x \cdot y - 1 = 5 \quad 3x - 1 = 8 \\ 3 \cdot y = 6 \quad 3x = 9 \\ y = 2 \quad x = 3 \end{array}$$

Cevap: D

2. $(x^5 - 1) \blacktriangle (x + y - z) = x^2 + y^3 - x \cdot y = 3^2 + 3^3 - 3 \cdot 3$
 $= 9 + 27 - 9 = 27$

$$\begin{array}{l} \downarrow \qquad \qquad \downarrow \\ x^5 - 1 = 242 \quad x + y - z = 4 \\ x^5 = 243 \quad 3 + y - 2 = 4 \\ x = 3 \quad y = 3 \end{array}$$

Cevap: D

3. $\frac{1}{x-1} \odot \frac{x+y}{y-1} = x \cdot y = 3 \cdot 2 = 6$

$$\begin{array}{l} \downarrow \qquad \qquad \searrow \\ \frac{1}{x-1} = \frac{1}{2} \quad \frac{3+y}{y-1} = 5 \\ x-1 = 2 \quad 3+y = 5y-5 \\ x = 3 \quad 8 = 4y \\ \quad 2 = y \end{array}$$

Cevap: E

4. $\sqrt{\frac{a+1}{a-15}} \boxplus \sqrt{b} = a^b - b^a = 17^1 - 1^{17} = 17 - 1 = 16$

$$\begin{array}{l} \downarrow \qquad \qquad \searrow \\ \sqrt{\frac{a+1}{a-15}} = 3 \quad \sqrt{b} = 1 \\ \frac{a+1}{a-15} = 9 \quad b = 1 \\ a+1 = 9a-135 \\ 8a = 136 \\ a = 17 \end{array}$$

Cevap: A

5. $\frac{x-1}{x+1} \heartsuit \frac{y^3+1}{9} = 2x-3y = 2 \cdot (-2) - 3 \cdot 2 = -10$

$$\begin{array}{l} \downarrow \qquad \qquad \searrow \\ \frac{x-1}{x+1} = 3 \quad \frac{y^3+1}{9} = 1 \\ x-1 = 3x+3 \quad y^3+1 = 9 \\ -4 = 2x \quad y^3 = 8 \\ x = -2 \quad y = 2 \end{array}$$

Cevap: A

6. $x \bullet y = x^4 + 2xy + y^2 = (\sqrt{3})^4 + 2 \cdot \sqrt{3} \cdot 12 + (\sqrt{12})^2$
 $= 3^2 + 2\sqrt{36} + 12$
 $= 9 + 2 \cdot 6 + 12$
 $= 9 + 12 + 12$
 $= 33$

Cevap: D

7. $(a!) \blacktriangle (b-1) = 2a-b = 2 \cdot 3 - 4 = 2$

$$\begin{array}{l} \downarrow \qquad \downarrow \\ a! = 6 \quad b-1 = 3 \\ a = 3 \quad b = 4 \end{array}$$

$(a!) \blacktriangle (b-1) = 2a-b = 2 \cdot 5 - 5 = 10 - 5 = 5$

$$\begin{array}{l} \downarrow \qquad \downarrow \\ a! = 120 \quad b-1 = 4 \\ a = 5 \quad b = 5 \end{array}$$

$\Rightarrow (6 \blacktriangle 3) \star (120 \blacktriangle 4) = 2 \star 5$

$a \star (b+1) = \frac{a-b}{2} = \frac{2-4}{2} = \frac{-2}{2} = -1$

$$\begin{array}{l} \downarrow \qquad \downarrow \\ a = 2 \quad b+1 = 5 \\ \quad b = 4 \end{array}$$

Cevap: C

8. $\frac{x}{y} \star (x+y) = 2x^2 - 3y + x \cdot y = 2 \cdot 6^2 - 3 \cdot 3 + 6 \cdot 3$
 $= 2 \cdot 36 - 9 + 18$
 $= 72 - 9 + 18$
 $= 81$

$$\begin{array}{l} \downarrow \qquad \qquad \searrow \\ \frac{x}{y} = 2 \quad x+y = 9 \\ x = 2y \quad 2y+y = 9 \\ \Rightarrow x = 6 \quad 3y = 9 \\ \quad y = 3 \end{array}$$

Cevap: A

TEST - 2 ÇÖZÜMLER

9. $x \odot y = 2x - 3y = 2.10 - 3m = 20 - 3m$

↓ ↓

10 m

$x \odot y = 2x - 3y = 2m - 3.5 = 2m - 15$

↓ ↓

m 5

$\Rightarrow 20 - 3m = 2m - 15$

$35 = 5m$

$m = 7$

Cevap: C

10. $x \blacktriangle y = 2x - 5y = 2a - 5.2 = 2a - 10$

↓ ↓

a 2

$x \blacksquare y = 7x + 3y = 7.5 + 3.a = 35 + 3a$

↓ ↓

5 a

$\Rightarrow 2a - 10 = 35 + 3a$

$-10 - 35 = 3a - 2a$

$-45 = a$

Cevap: E

11. I. $17 \otimes 25 = (1 + 7).(2.5) = 8.10 = 80$

II. $23 \otimes 17 = (2 + 3).(1.7) = 5.7 = 35$

III. $72 \otimes 23 = (7 + 2).(2.3) = 9.6 = 54$

IV. $34 \otimes 11 = (3 + 4).(1.1) = 7.1 = 7$

Cevap: E

12. I. $\triangle 7 = (7 - 2)^2 = 25$

II. $\triangle 5 = (5 - 2)^2 = 9$

III. $\triangle 13 = (13 - 2)^2 = 121$

IV. $\triangle 9 = (9 - 2)^2 = 49$

Cevap: C

13. I. $\odot 5 = 4.\textcircled{5} - 1 = 19$

II. $\odot 6 = 4.\textcircled{6} - 1 = 23$

III. $\odot 7 = 4.\textcircled{7} - 1 = 27$

IV. $\odot 8 = 4.\textcircled{8} - 1 = 31$

Cevap: D

14. I. $6 \heartsuit 9 = \frac{6}{2}.9 = 3.9 = 27$

II. $8 \heartsuit 10 = \frac{8}{2}.10 = 4.10 = 40$

III. $10 \heartsuit 11 = \frac{10}{2}.11 = 5.11 = 55$

Cevap: D

15. I. $8 \bullet 3 = 8.3 - 11 = 24 - 11 = 13$

II. $11 \bullet 4 = 11.4 - 11 = 44 - 11 = 33$

III. $9 \bullet 5 = 9.5 - 11 = 45 - 11 = 34$

IV. $10 \bullet 6 = 10.6 - 11 = 60 - 11 = 49$

Cevap: A

16. I. $1 \triangle 5 \bigcirc 2 = (1 + 5) + 2 = 6 + 2 = 8$

II. $13 \triangle 3 \bigcirc 4 = (13 + 3) + 4 = 16 + 4 = 20$

III. $21 \triangle 7 \bigcirc 7 = (21 + 7) + 7 = 28 + 7 = 35$

Cevap: B

17. I. $24 \boxplus 3 = (2 + 4) + 3 = 6 + 3 = 9$

II. $71 \boxplus 2 = (7 + 1) + 2 = 8 + 2 = 10$

III. $91 \boxplus 2 = (9 + 1) + 2 = 10 + 2 = 12$

Cevap: B

18. I. $\triangle 83 \Rightarrow 8 + 3 = 11 \Rightarrow 1 + 1 = 2$

II. $\triangle 79 \Rightarrow 7 + 9 = 16 \Rightarrow 1 + 6 = 7$

III. $\triangle 82 \Rightarrow 8 + 2 = 10 \Rightarrow 1 + 0 = 1$

IV. $\triangle 75 \Rightarrow 7 + 5 = 12 \Rightarrow 1 + 2 = 3$

Cevap: E

19. I. $\nearrow 231 = 2^3 - 1 = 8 - 1 = 7$

II. $\nearrow 425 = 4^2 - 5 = 16 - 5 = 11$

III. $\nearrow 714 = 7^1 - 4 = 7 - 4 = 3$

IV. $\nearrow 349 = 3^4 - 9 = 81 - 9 = 72$

Cevap: E

20. I. $\nabla 317 = (3 + 1).7 = 4.7 = 28$

II. $\nabla 412 = (4 + 1).2 = 5.2 = 10$

III. $\nabla 504 = (5 + 0).4 = 5.4 = 20$

IV. $\nabla 732 = (7 + 3).2 = 10.2 = 20$

Cevap: B

TEST - 3

1. I. $752 = 9$

II. $432 = 5$

III. $713 = 20$

IV. $931 = ?$

- A) 1 B) 2 C) 4 D) 6 E) 8

2. I. $\bullet 25 = 5$

II. $\bullet 35 = 9$

III. $\bullet 43 = 10$

IV. $\bullet 53 = ?$

- A) 6 B) 8 C) 11 D) 14 E) 16

3. I. $73 \rightarrow 40$

II. $43 \rightarrow 7$

III. $52 \rightarrow 21$

IV. $94 \rightarrow ?$

- A) 48 B) 56 C) 62 D) 63 E) 65

4. I. $\bullet 276 = 5$

II. $\bullet 324 = 10$

III. $\blacksquare 27 = 9$

IV. $\blacksquare 34 = 7$

V. $\bullet 147 \blacksquare 24 = 9$

VI. $\bullet 214 \blacksquare 32 = ?$

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

5. I. $42 \diamond 8 = 38$

II. $37 \diamond 12 = 31$

III. $23 \diamond 4 = 21$

IV. $33 \diamond 6 = ?$

- A) 34 B) 30 C) 28 D) 26 E) 19

6. I. $6 \# 2 = 9$

II. $3 \# 4 = \frac{81}{4}$

III. $2 \# 4 = ?$

- A)
- $\frac{1}{4}$
- B)
- $\frac{3}{4}$
- C) 1 D) 4 E) 8

TEST - 3

7. I. $5 \square 4 = 5$

II. $3 \square 8 = 6$

III. $7 \square 16 = 28$

IV. $6 \square 2 = ?$

- A) 3 B) 4 C) 6 D) 12 E) 24

8. I. $x \star y = \begin{cases} x^2 + y^2, & x < y \\ 3x - 2y, & x = y \\ x - y, & x > y \end{cases}$

II. $(2 \star 2) \star (6 \star 3) = ?$

- A) 5 B) 11 C) 13 D) 14 E) 16

9. I. $x \star y = \begin{cases} 3x - y, & x < y \\ 4x + 5y, & y \leq x \end{cases}$

II. $(2 \star 3) \star 2 = ?$

- A) 7 B) 11 C) 15 D) 17 E) 22

10. I. $(a, b) \square (c, d) = (a, c, b - d)$

II. $(x, y) \square (2, 1) = (y, 2x) \square (2, 4)$

III. $x + y = ?$

- A) 6 B) 8 C) 11 D) 12 E) 14

11. I. $\frac{x}{2} \star \frac{y}{4} = \frac{x-y}{2}$

II. $\sqrt{x} \square \frac{y}{5} = x - y$

III. $(4 \star 2) \square 3 = ?$

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

12. I. $\frac{1}{\frac{1}{x} \bullet y} = x - \frac{1}{y}$

II. $4 \bullet \frac{1}{4} = ?$

- A)
- $-\frac{1}{15}$
- B)
- $-\frac{4}{15}$
- C)
- $-\frac{3}{5}$
- D)
- $\frac{3}{5}$
- E)
- $\frac{4}{15}$

13. I. $a \Delta b = \begin{cases} 2a \Delta 3b, & a > b \\ a - b, & a = b \\ 3a \Delta b, & a < b \end{cases}$

II. $1 \Delta 2 = ?$

- A) -3 B) 0 C) 3 D) 6 E) 9

TEST - 3

14. I. $x \odot y = \begin{cases} x \star y, & x > y \\ x \star (2y), & x \leq y \end{cases}$

II. $x \star y = 2x - 3y$

III. $(2 \odot 1) + (3 \odot 6) = ?$

- A) -30 B) -29 C) -28 D) 28 E) 30

15. I. $a \star b = (x + 1)a + (y - 2)b + 1$

II. $1 \triangle (-1) = 5$

$\Rightarrow y - x = ?$

- A) -1 B) 0 C) 1 D) 2 E) 3

16. $\frac{5(x \odot y)}{3(x \triangle y)} = \frac{x + y}{x \cdot y}$

$\Rightarrow \frac{3 \triangle 2}{3 \odot 2} = ?$

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

17. I. $\frac{x \triangle y}{2 + \frac{x \triangle y}{3}} = x \triangle y$

II. $x \triangle y = ?$

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

18. I. $(a^{-5}, b^{-3}) \boxplus (c^{-1}, d^{-3}) = (a \cdot d, b - c)$

II. $\left(\frac{1}{32}, \frac{1}{27}\right) \boxplus \left(\frac{1}{7}, \frac{1}{64}\right) = ?$

- A) (-2, 8) B) (8, 4) C) (4, 8)
D) (-4, 8) E) (8, -4)

19. I. $\# 2314 = 2$

II. $\# 5745 = 15$

III. $\# 3965 = -3$

IV. $\# 4518 = ?$

- A) 7 B) 8 C) 10 D) 12 E) 14

20. I. $8 \triangle \rightarrow 2, 8, 16$

II. $11 \triangle \rightarrow 9, 81, 243$

III. $9 \triangle \rightarrow 16, 64, 256$

IV. $? \triangle \rightarrow 25, 125, 625 = ?$

- A) 7 B) 8 C) 9 D) 10 E) 11

TEST - 3 ÇÖZÜMLER

1. I. $752 = (7.2) - 5 = 14 - 5 = 9$
 II. $432 = (4.2) - 3 = 8 - 3 = 5$
 III. $713 = (7.3) - 1 = 21 - 1 = 20$
 IV. $931 = (9.1) - 3 = 9 - 3 = 6$

Cevap: D

2. I. $\bullet 25 = 2^5 = 32 = 3 + 2 = 5$
 II. $\bullet 35 = 3^5 = 243 = 2 + 4 + 3 = 9$
 III. $\bullet 43 = 4^3 = 64 = 6 + 4 = 10$
 IV. $\bullet 53 = 5^3 = 125 = 1 + 2 + 5 = 8$

Cevap: B

3. I. $73 = (7 + 3).(7 - 3) = 10.4 = 40$
 II. $43 = (4 + 3).(4 - 3) = 7.1 = 7$
 III. $52 = (5 + 2).(5 - 2) = 7.3 = 21$
 IV. $94 = (9 + 4).(9 - 4) = 13.5 = 65$

Cevap: E

4. I. $\bullet 276 = (2.6) - 7 = 12 - 7 = 5$
 II. $\bullet 324 = (3.4) - 2 = 12 - 2 = 10$
 III. $\blacksquare 27 = 2 + 7 = 9$
 IV. $\blacksquare 34 = 3 + 7 = 7$
 V. $\bullet 147 \blacksquare 24 = (1.7 - 4) + (2 + 4) = 7 - 4 + 6 = 9$
 VI. $\bullet 214 \blacksquare 32 = (2.4 - 1) + (3 + 2) = 7 + 5 = 12$

Cevap: B

5. I. $42 \diamond 8 = 42 - \frac{8}{2} = 42 - 4 = 38$
 II. $37 \diamond 12 = 37 - \frac{12}{2} = 37 - 6 = 31$
 III. $23 \diamond 4 = 23 - \frac{4}{2} = 23 - 2 = 21$
 IV. $33 \diamond 6 = 33 - \frac{6}{2} = 33 - 3 = 30$

Cevap: B

6. I. $6 \# 2 = 6^2 \div 4 = 36 \div 4 = 9$
 II. $3 \# 4 = 3^4 \div 4 = 81 \div 4 = \frac{81}{4}$
 III. $2 \# 4 = 2^4 \div 4 = 16 \div 4 = 4$

Cevap: D

7. I. $5 \square 4 = (5.4) \div 4 = 20 \div 4 = 5$
 II. $3 \square 8 = (3.8) \div 4 = 24 \div 4 = 6$
 III. $7 \square 16 = (7.16) \div 4 = 112 \div 4 = 28$
 IV. $6 \square 2 = (6.2) \div 4 = 12 \div 4 = 3$

Cevap: A

8. $2 \star 2 = 3.2 - 2.2 = 6 - 4 = 2 \ (x = y)$
 $6 \star 3 = 6 - 3 = 3 \ (x > y)$
 $\Rightarrow (2 \star 2) \star (6 \star 3) = 2 \star 3$
 $2 \star 3 = 2^2 + 3^2 = 4 + 9 = 13 \ (x < y)$

Cevap: C

9. $2 \star 3 = 3.2 - 3 = 6 - 3 = 3 \ (x < y)$
 $\Rightarrow (2 \star 3) \star 2 = 3 \star 2$
 $3 \star 2 = 4.3 + 5.2 = 12 + 10 = 22 \ (y \leq x)$

Cevap: E

10. $(x, y) \square (2, 1) = (2x, y - 1)$
 $(y, 2x) \square (2, 4) = (2y, 2x - 4)$
 $\Rightarrow (2x, y - 1) = (2y, 2x - 4)$
 $2x = 2y \quad y - 1 = 2x - 4$
 $x = y \quad x - 1 = 2x - 4$
 $3 = x$
 $\Rightarrow x + y = 3 + 3 = 6$

Cevap: A

TEST - 3 ÇÖZÜMLER

$$11. 4 \star 2 = \frac{8}{2} \star \frac{8}{4} = \frac{8-8}{2} = 0$$

$$\Rightarrow (4 \star 2) \square 3 = 0 \square 3$$

$$0 \square 3 = \sqrt{0} \square \frac{15}{5} = 0 - 15 = -15$$

Cevap: A

$$12. 4 \bullet \frac{1}{4} \Rightarrow \frac{1}{\frac{1}{\frac{1}{4}} \bullet \frac{1}{4}} = \frac{1}{\frac{1}{4} - \frac{1}{4}} = \frac{1}{4} - 4 = -\frac{15}{4}$$

$$\Rightarrow \frac{1}{4 \bullet \frac{1}{4}} = -\frac{15}{4}, 4 \bullet \frac{1}{4} = -\frac{4}{15}$$

Cevap: B

$$13. 1 \Delta 2 = 3.1 \Delta 2 = 3 \Delta 2$$

$$\Rightarrow 3 \Delta 2 = 2.3 \Delta 3.2 = 6 \Delta 6$$

$$\Rightarrow 6 \Delta 6 = 6 - 6 = 0$$

Cevap: B

$$14. 2 \odot 1 = 2 \star 1 = 2.2 - 3.1 = 4 - 3 = 1$$

$$3 \odot 6 = 3 \star (2.6) = 2.3 - 3.12 = 6 - 36 = -30$$

$$\Rightarrow (2 \odot 1) + (3 \odot 6) = 1 - 30 = -29$$

Cevap: C

$$15. a \star b = (x+1).1 + (y-2).(-1) + 1 = 5$$

$$\downarrow \quad \downarrow \quad x+1-y+2+1=5$$

$$1 \quad -1 \quad x-y+4=5$$

$$x-y=1 \Rightarrow y-x=-1$$

Cevap: A

$$16. x=3 \Rightarrow \frac{5.(3 \odot 2)}{3.(3 \Delta 2)} = \frac{3+2}{3.2}$$

$$\frac{\cancel{3}.(3 \odot 2)}{\cancel{3}.(3 \Delta 2)} = \frac{\frac{1}{\cancel{2}}}{\frac{1}{\cancel{2}}} \Rightarrow \frac{3 \odot 2}{3 \Delta 2} = \frac{1}{2} \Rightarrow \frac{3 \Delta 2}{3 \odot 2} = 2$$

Cevap: D

$$17. \frac{x \Delta y}{\frac{2}{1} + \frac{x \Delta y}{3}} = x \Delta y$$

(3)

$$\frac{x \Delta y}{6 + x \Delta y} = x \Delta y$$

$$\frac{3(x \Delta y)}{6 + x \Delta y} = x \Delta y \Rightarrow 3 = 6 + (x \Delta y)$$

$$x \Delta y = -3$$

Cevap: B

$$18. (a^{-5}, b^{-3}) \boxplus (c^{-1}, d^{-3}) = (2.4, 3-7) = (8, -4)$$

$$a^{-5} = \frac{1}{32}$$

$$a^{-5} = 2^{-5}$$

$$a = 2$$

$$c^{-1} = \frac{1}{7}$$

$$c^{-1} = 7^{-1}$$

$$c = 7$$

$$d^{-3} = \frac{1}{64}$$

$$d^{-3} = 4^{-3}$$

$$d = 4$$

$$b^{-3} = \frac{1}{27}$$

$$b^{-3} = 3^{-3}$$

$$b = 3$$

Cevap: E

$$19. \# 2314 = (2.3) - (1.4) = 6 - 4 = 2$$

$$\# 5745 = (5.7) - (4.5) = 35 - 20 = 15$$

$$\# 3965 = (3.9) - (6.5) = 27 - 30 = -3$$

$$\# 4518 = (4.5) - (1.8) = 20 - 8 = 12$$

Cevap: D

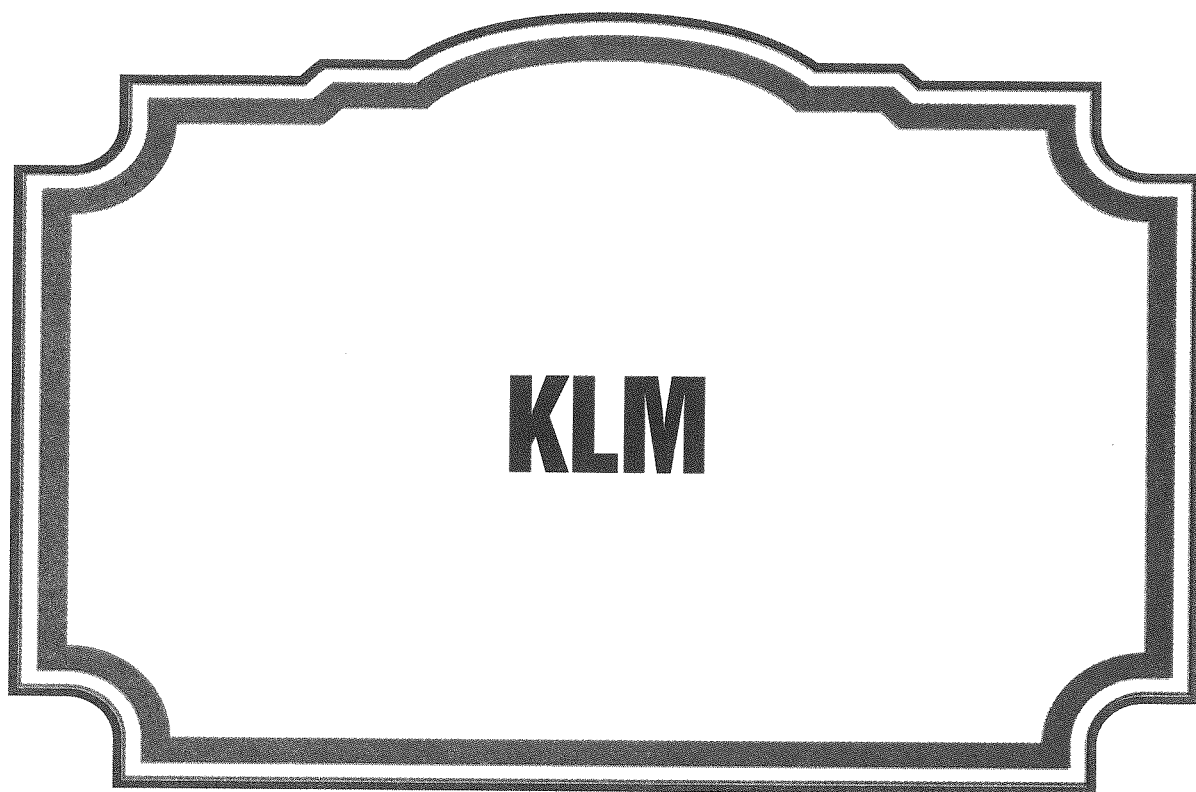
$$20. 8 \Delta \rightarrow 2^{\textcircled{1}}, 2^{\textcircled{3}}, 2^{\textcircled{4}} \Rightarrow 8 = 1 + 3 + 4$$

$$11 \Delta \rightarrow 3^{\textcircled{2}}, 3^{\textcircled{4}}, 3^{\textcircled{5}} \Rightarrow 11 = 2 + 4 + 5$$

$$9 \Delta \rightarrow 4^{\textcircled{2}}, 4^{\textcircled{3}}, 4^{\textcircled{4}} \Rightarrow 9 = 2 + 3 + 4$$

$$x \Delta \rightarrow 5^{\textcircled{2}}, 5^{\textcircled{3}}, 5^{\textcircled{4}} \Rightarrow x = 2 + 3 + 4 = 9$$

Cevap: C



TEST - 1

1. $K \neq L \neq M \neq N \neq Y$

$K + L + M + N + Y = 32$

$\Rightarrow MYKL$

$NKLM$

$YLMN$

$KMNY$

$+ LNYK$

$\cdot \cdot \cdot \cdot \cdot \rightarrow ?$

A) 33663

B) 33666

C) 36663

D) 33333

E) 36633

2. ABC

$+ CBA$

$D554$

$\Rightarrow B = ?$

A) 2

B) 4

C) 7

D) 8

E) 9

3. AB

$\times AB$

$\dots$

$+ \dots$

CAB

$\Rightarrow A + B + C = ?$

A) 13

B) 14

C) 15

D) 16

E) 18

4. AB

$\times CA$

$B \cdot$

$+ AB$

$A \cdot 8$

$\Rightarrow A = ?$

A) 2

B) 4

C) 6

D) 7

E) 8

5. $K \neq L \neq M \neq 0$

KLM

$- MLK$

$5L4$

$\Rightarrow M = ?$

A) 1

B) 2

C) 3

D) 4

E) 7

KLM

$+ MLK$

$L88$

6. $A \neq B \neq C \neq 0$

ABC

$- BCA$

$55A$

$\Rightarrow A + B = ?$

A) 14

B) 13

C) 12

D) 11

E) 10

TEST - 1

7. KL

$$\begin{array}{r} \text{LM} \\ + \text{MK} \\ \hline 132 \end{array}$$

 $K < L < M$ ise $\min(M) = ?$

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

8. MN

$$\begin{array}{r} \times \text{MN} \\ \hline \cdot \cdot \text{M} \\ + 3 \cdot \text{N} \\ \hline \text{N} \cdot \cdot \text{M} \end{array}$$

 $\Rightarrow M = ?$

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

9. $K \neq L \neq M \neq N \neq 0$

$$\begin{array}{r} \text{MN} \\ \times \text{MN} \\ \hline \text{MN} \\ + \text{N} \cdot \text{M} \\ \hline \text{NKLN} \end{array}$$

 $\Rightarrow M = ?$

- A) 1 B) 2 C) 4 D) 6 E) 8

10. $A \neq B \neq 0$

$$\begin{array}{r|l} \text{AAB} & \text{B} \\ \hline - \cdot \cdot & 67 \\ \hline \cdot \text{B} & \\ \hline - \cdot \cdot & \\ \hline 0 & \end{array}$$

 $\Rightarrow A = ?$

- A) 2 B) 3 C) 4 D) 5 E) 7

11. ABB

$$\begin{array}{r} \times \quad \text{C} \\ \hline 1 \cdot \cdot 6 \end{array}$$

 $B + 2 = C + 1 = A \Rightarrow A = ?$

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

$$\begin{array}{r|l} 87 & \text{M} \\ \hline - \cdot & 14 \\ \hline \cdot \cdot & \\ \hline - \cdot \cdot & \\ \hline \text{L} & \end{array}$$

 $\Rightarrow \frac{M}{L} = ?$

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

TEST - 1

13. $A \neq B \neq C \neq 0$

$$\begin{array}{r} A \\ + 2 \\ \hline B \end{array} \quad \begin{array}{r} B \\ - 5 \\ \hline C \end{array}$$

$\Rightarrow \min(A) = ?$

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

14. $L \neq M \neq N$

$$\begin{array}{r} 1NL \\ \times M \\ \hline 8ML \end{array} \quad \begin{array}{r} N \\ + L \\ \hline M \end{array}$$

$\Rightarrow N = ?$

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

15. $K \neq M \neq N$

$$\begin{array}{r} KKM \\ \times N \\ \hline 2N2M \end{array}$$

$\Rightarrow K = ?$

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

16. $K \neq L \neq 0$

$$\begin{array}{r} KL \\ - LK \\ \hline 63 \end{array}$$

$\Rightarrow K + L = ?$

- A) 11 B) 10 C) 8 D) 7 E) 5

17. KLM

$$\begin{array}{r} + MLK \\ \hline PR1L \end{array}$$

$\Rightarrow P = ?$

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

18. $6 \cdot 9$

$$\begin{array}{r} \times \quad \cdot \\ \hline M \cdot 96 \end{array}$$

$\Rightarrow M = ?$

- A) 1 B) 2 C) 3 D) 4 E) 6

TEST - 1 ÇÖZÜMLER

1.
$$\begin{array}{cccc} & +3 & +3 & +3 \\ M & Y & K & L \\ N & K & L & M \\ Y & L & M & N \\ K & M & N & Y \\ + & L & N & Y & K \\ \hline 3 & 6 & 6 & 6 & 3 \end{array} \rightarrow 33$$

Cevap: C

2.
$$\begin{array}{ccc} A & B & C \\ + & C & B & A \\ \hline D & 5 & 5 & 4 \end{array}$$

- $B + B = 5$ olabilmesi için $C + A$ toplamından elde gelmelidir. $\Rightarrow A + C = 14$ olur.
- $A + C = D5$ olduğundan $B + B$ toplamından elde gelmelidir. $\Rightarrow B + B = 14$
 $B = 7$ olur.

Cevap: C

3.
$$\begin{array}{r} AB \\ \times AB \\ \hline \bullet \bullet B \\ + \bullet \bullet \uparrow \\ \hline CAB \end{array}$$

- $B \cdot B = \bullet B$ olmalıdır. O halde $B = 1, 5$ veya 6 olabilir. $B = 1$ olamaz. $B \cdot AB$ iki basamaklı olur ama $\bullet \bullet \bullet$ üç basamaklı verilmiş.
- $A = 1$ veya 2 olmalıdır. $A = 3$ veya daha büyük olursa $A \cdot AB$ üç basamaklı olur ama $\bullet \bullet$ basamaklı verilmiş.

i) $A = 2$ $B = 6$ için ii) $A = 2$ $B = 5$ için

$$\begin{array}{r} 26 \\ \times 26 \\ \hline 156 \\ + 52 \\ \hline 676 \text{ olamaz.} \end{array}$$

$$\begin{array}{r} 25 \\ \times 25 \\ \hline 125 \\ + 50 \\ \hline 625 \end{array}$$

$$\Rightarrow C = 6, A = 2, B = 5$$

$$\Rightarrow A + B + C = 2 + 5 + 6 = 13$$

Cevap: A

4.
$$\begin{array}{r} \textcircled{AB} \\ \times \textcircled{CA} \\ \hline B8 \\ + \textcircled{AB} \uparrow \\ \hline K \cdot \textcircled{8} \end{array} \Rightarrow AB \cdot C = AB \text{ o halde } C = 1$$

$$\Rightarrow A \cdot B = 8 \text{ için } A = 2 \text{ } B = 4 \text{ seçilirse,}$$

$$\begin{array}{r} 24 \\ \times 12 \\ \hline 48 \\ + 24 \\ \hline 288 \end{array}$$

Eşitlik sağlanıyor.

O halde $A = 2$ dir.

Cevap: A

5.
$$\begin{array}{r} KLM \\ - MLK \\ \hline 5L4 \end{array}$$

$$\Rightarrow KLM - MLK = 5L4$$

$$100K + 10L + M - 100M - 10L - K = 5L4$$

$$99(K - M) = 5L4$$

$$\frac{5L4}{99} = K - M$$

$$594 = 5L4 \Rightarrow L = 9 \text{ olur.}$$

O halde; $KLM - \cancel{MLK} = 594$

$$+ KLM + \cancel{MLK} = 988$$

$$2(KLM) = 1582$$

$$KLM = 791$$

$$M = 1$$

Cevap: A

6.
$$\begin{array}{r} ABC \\ - BCA \\ \hline 55A \end{array} \Rightarrow A - B = 5 \text{ ise } A = 6, 7, 8, 9 \text{ olabilir.}$$

$$A \text{ değerleri denenirse;}$$

$$A = 8 \text{ için } C = 6 \text{ ve } B = 2 \text{ olur.}$$

$$\begin{array}{r} 826 \\ - 268 \\ \hline 558 \end{array}$$

$$\Rightarrow A + B = 8 + 2 = 10$$

Cevap: E

TEST - 1 ÇÖZÜMLER

$$\begin{array}{r}
 \text{KL} \\
 \text{LM} \\
 + \text{MK} \\
 \hline
 132
 \end{array}
 \Rightarrow
 \begin{array}{l}
 \text{KL} + \text{LM} + \text{MK} = 132 \\
 11\text{K} + 11\text{M} + 11\text{L} = 132 \\
 11(\text{K} + \text{L} + \text{M}) = 132 \\
 \text{K} + \text{L} + \text{M} = 12 \\
 3 \quad 4 \quad 5 \\
 \min(\text{M}) = 5
 \end{array}$$

Cevap: B

$$\begin{array}{r}
 \text{MN} \\
 \times \text{MN} \\
 \hline
 \cdot \cdot \text{M} \\
 + \boxed{3} \cdot \text{N} \\
 \hline
 \boxed{\text{N}} \cdot \cdot \text{M}
 \end{array}
 \Rightarrow
 \begin{array}{l}
 \text{N} = 3 \text{ yada } 4 \text{ olabilir.} \\
 \cdot \text{N} = 3 \text{ iken } \text{M} = 9 \text{ olur.} \\
 \begin{array}{r}
 93 \\
 \times 93 \\
 \hline
 279 \\
 + 837 \\
 \hline
 8649
 \end{array}
 \end{array}$$

• N = 4 iken M = 6 olur.

$$\begin{array}{r}
 64 \\
 \times 64 \\
 \hline
 256 \\
 + 384 \\
 \hline
 4096
 \end{array}
 \Rightarrow \text{N} = 4 \Rightarrow \text{M} = 6$$

Cevap: D

$$\begin{array}{r}
 \text{MN} \\
 \times \text{MN} \\
 \hline
 \text{MN} \\
 + \text{N} \cdot \text{M} \\
 \hline
 \text{NKLN}
 \end{array}
 \Rightarrow
 \begin{array}{l}
 \text{MN} \cdot \text{N} = \text{MN} \\
 \text{O halde } \text{N} = 1 \\
 \begin{array}{r}
 \text{M}1 \\
 \times \text{M}1 \\
 \hline
 \text{M}1 \\
 + \boxed{1} \cdot \text{M} \\
 \hline
 1\text{KL}1
 \end{array} \\
 \text{M} \times \text{M} = 1 \cdot \\
 \text{O halde } \text{M} = 4
 \end{array}$$

Cevap: C

$$\begin{array}{l}
 10. \text{Kalan } 0 \text{ olduğu için } 67 \times \text{B} = \text{AAB} \text{ dir.} \\
 \text{O halde } \text{B} = 5 \text{ için } 67 \times 5 = 335 \text{ olur.} \\
 \text{A} = 3 \text{ ve } \text{B} = 5 \text{ dir.}
 \end{array}$$

Cevap: B

$$\begin{array}{r}
 \text{AB} \\
 \times \text{C} \\
 \hline
 1 \cdot \cdot 6
 \end{array}
 \Rightarrow \text{B} \cdot \text{C} = \cdot 6$$

$$\begin{array}{r}
 2.3 \\
 7.8 \text{ olabilir.} \\
 \cdot \text{B} = 7, \text{C} = 8 \Rightarrow \text{A} = 9
 \end{array}$$

$$\begin{array}{r}
 977 \\
 \times 8 \\
 \hline
 \boxed{7}816
 \end{array}
 \Rightarrow 7 \neq 1 \text{ olmaz.}$$

$$\cdot \text{B} = 2, \text{C} = 3 \Rightarrow \text{A} = 4$$

$$\begin{array}{r}
 422 \\
 \times 3 \\
 \hline
 1266
 \end{array}
 \Rightarrow \text{A} = 4$$

Cevap: A

$$\begin{array}{r}
 87 \mid \text{M} \\
 = \text{L} \mid 14
 \end{array}
 \Rightarrow
 \begin{array}{l}
 87 = 14 \cdot \text{M} + \text{L} \text{ ve } \text{M} > \text{L} \\
 \text{M} = 6 \text{ seçilirse} \\
 87 = 14 \cdot 6 + \text{L} \\
 3 = \text{L} \text{ olur.} \\
 \Rightarrow \frac{\text{M}}{\text{L}} = \frac{6}{3} = 2 \text{ olur.}
 \end{array}$$

Cevap: B

TEST - 1 ÇÖZÜMLER

$$13. \quad \begin{array}{r} A \\ + 2 \\ \hline B \end{array} \Rightarrow A + 2 = B \quad \begin{array}{r} B \\ - 5 \\ \hline C \end{array} \Rightarrow B - 5 = C$$

A en az olması için B en az olmalı.

B = 6 seçilirse

$$\Rightarrow A + 2 = B$$

$$A + 2 = 6$$

A = 4 olur.

Cevap: C

$$14. \quad \begin{array}{r} 1NL \\ \times M \\ \hline \end{array} \Rightarrow \begin{array}{r} 8ML \\ \times M \\ \hline \end{array} \Rightarrow M, 8 \text{ veya daha küçük bir sayıdır.}$$

M = 7 ise M.L = .L olduğundan L = 5 olur.

$$7.5 = 35$$

$$N + L = M \Rightarrow N + 5 = 7 \Rightarrow N = 2$$

Cevap: B

$$16. \quad \begin{array}{r} KL \\ - LK \\ \hline 63 \end{array} \Rightarrow K > L \text{ olmalı ve } K > 7 \text{ olmalı.}$$

$$K = 8 \Rightarrow \begin{array}{r} 81 \\ - 18 \\ \hline 63 \end{array} \Rightarrow K + L = 9$$

$$K = 9 \Rightarrow \begin{array}{r} 92 \\ - 29 \\ \hline 63 \end{array} \Rightarrow K + L = 11$$

Cevap: A

$$17. \quad \begin{array}{r} KLM \\ + MLK \\ \hline PR1L \end{array} \Rightarrow K \text{ ile } M \text{ 9 seçilse bile} \\ K + M = 18 \text{ olur.} \\ \text{O halde } P = 1 \text{ olmalıdır.}$$

Cevap: A

$$15. \quad \begin{array}{r} KK \\ \times \quad M \\ \hline 2N2M \end{array} \Rightarrow M.N = .M \text{ olmalı.}$$

M = 5 ve N = 3 seçilirse,

$$\begin{array}{r} 53 \\ \times 5 \\ \hline 265 \end{array}$$

$\Rightarrow K = 7$ için;

$$\begin{array}{r} 775 \\ \times 3 \\ \hline 2325 \end{array}$$

2325 eşitlik sağlanır.

Cevap: B

$$18. \quad \begin{array}{r} 6 \cdot 9 \\ \times \quad 4 \\ \hline M \cdot 96 \end{array} \Rightarrow \begin{array}{r} 9 \\ \downarrow \\ 6 \cdot 9 \\ \times \quad 4 \\ \hline M \cdot 96 \end{array} \Rightarrow \begin{array}{r} 699 \\ \times \quad 4 \\ \hline 2796 \end{array}$$

O halde M = 2 olur.

Cevap: B

TEST - 2

1. $K \neq L \neq M \neq 0$

$$\begin{array}{r} KL \\ \times KL \\ \hline \dots \\ + \dots \\ \hline MKL \end{array}$$

$\Rightarrow M + K = ?$

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

2. $K \neq L \neq M \neq N \neq 0$

$$\begin{array}{r} MLN \\ - LMN \\ \hline 90 \end{array} \quad \begin{array}{r} MLN \\ - NLM \\ \hline 297 \end{array}$$

$\Rightarrow (MLN) = ?$

- A) 542 B) 326 C) 265 D) 345 E) 263

3. $A \neq B \neq C \neq 0$

$$\begin{array}{r} 8AB \\ - 42A \\ \hline AC4 \end{array}$$

$\Rightarrow C = ?$

- A) 1 B) 2 C) 3 D) 4 E) 6

4. $M \neq L \neq 0$

$$\begin{array}{r} M5L \\ + LM \\ \hline 351 \end{array}$$

$\Rightarrow M = ?$

- A) 1 B) 2 C) 3 D) 4 E) 8

5. $L \neq M \neq N \neq 0$

$$\begin{array}{r} M2N \\ \times 8 \\ \hline 181L \end{array}$$

$\Rightarrow N = ?$

- A) 3 B) 4 C) 6 D) 7 E) 8

6. $K \neq L \neq M \neq 0$

$$\begin{array}{r} KK \\ \times KK \\ \hline LMK \\ + LMK \\ \hline 30LK \end{array}$$

$\Rightarrow M = ?$

- A) 3 B) 5 C) 6 D) 7 E) 8

TEST - 2

7. $K \neq L \neq M \neq 0$

$$\begin{array}{r} K \\ + K \\ \hline ML \end{array} \quad \begin{array}{r} K \\ \times K \\ \hline LM \end{array}$$

$\Rightarrow K + L + M = ?$

- A) 11 B) 13 C) 14 D) 16 E) 18

8. $K \neq L \neq M \neq N \neq 0$

$$\begin{array}{r} KLM \\ + NML \\ \hline 1NN5 \end{array}$$

$\Rightarrow K = ?$

- A) 9 B) 8 C) 6 D) 5 E) 4

9. $K \neq L \neq M \neq N \neq 0$

$$\begin{array}{r} MM \\ \times LM \\ \hline KLM \\ + MM \\ \hline LKKL \end{array}$$

$\Rightarrow K + L = ?$

- A) 7 B) 8 C) 9 D) 10 E) 11

10. $K \neq L \neq M \neq 0$

$$\begin{array}{r} K \\ \times K \\ \hline LM \end{array} \quad \begin{array}{r} K \\ \times L \\ \hline MK \end{array}$$

$\Rightarrow K + L + M = ?$

- A) 14 B) 16 C) 18 D) 19 E) 22

11. $K \cdot L$

$$\begin{array}{r} \times M \cdot \\ \hline \cdot MM \cdot \\ + K \cdot L \\ \hline 12345 \end{array}$$

$\Rightarrow K = ?$

- A) 2 B) 4 C) 6 D) 8 E) 9

12. $K \neq L \neq M$

$K + L + M = 12$

$2K + L = 19$

$\Rightarrow KLM$

KKK

$$\begin{array}{r} + LKL \\ \hline ? \end{array}$$

- A) 1664 B) 1982 C) 2002
-
- D) 2102 E) 2112

TEST - 2

13. $K \neq L \neq M$

$$\begin{array}{r} KLM \\ LM \\ + M \\ \hline MMM \end{array}$$

$\Rightarrow K + L + M = ?$

- A) 14 B) 16 C) 18 D) 19 E) 21

14. $K \neq L \neq M \neq 0$

$$\begin{array}{r} KLM \\ - MLK \\ \hline 2LK \end{array}$$

$\Rightarrow K + M = ?$

- A) 9 B) 11 C) 12 D) 14 E) 16

15. $K \neq L \neq 0$

$$\begin{array}{r} KL \\ \times K \\ \hline 18K \end{array}$$

$\Rightarrow L = ?$

- A) 2 B) 4 C) 6 D) 8 E) 9

16. $K \neq L \neq M \neq N \neq 0$

$$\begin{array}{r} K \\ + L \\ \hline MN \end{array} \quad \begin{array}{r} M \\ + N \\ \hline K \end{array}$$

$\Rightarrow L = ?$

- A) 4 B) 6 C) 7 D) 8 E) 9

17. $K \neq L \neq M \neq 0$

$$\begin{array}{r} K \\ - L \\ \hline 3 \end{array} \quad \begin{array}{r} K \\ - M \\ \hline 2 \end{array}$$

$$\Rightarrow \begin{array}{r} K L K \\ - M K M \\ \hline ? \end{array}$$

- A) 172 B) 174 C) 182 D) 184 E) 202

18. $K \neq L \neq M \neq 0$

$$\begin{array}{r} KKK \\ LLL \\ + 3MM \\ \hline 2242 \end{array}$$

$\Rightarrow K + L = ?$

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

TEST - 2 ÇÖZÜMLER

1.
$$\begin{array}{r} \text{KL} \\ \times \text{KL} \\ \hline \text{L} \\ \text{MKL} \end{array} \Rightarrow \text{L} \cdot \text{L} = \text{L} \text{ ise } \text{L} = 5 \text{ veya } \text{L} = 6 \text{ olabilir.}$$

 Bu durumda $\text{K} = 2$ olmalıdır.

• $\text{L} = 6$ için;

$$\begin{array}{r} 26 \\ \times 26 \\ \hline 156 \\ + 52 \\ \hline 676 \end{array} \Rightarrow \text{M} = \text{L} \text{ olur.}$$

 O halde;
 $\text{L} = 5$ olmalıdır.

• $\text{L} = 5$ için;

$$\begin{array}{r} 25 \\ \times 25 \\ \hline 125 \\ + 50 \\ \hline 625 \end{array} \Rightarrow \text{M} + \text{K} = 6 + 2 = 8 \text{ olur.}$$

Cevap: C

2.
$$\begin{array}{r} \text{MLN} \\ - \text{LMN} \\ \hline 90 \end{array} \Rightarrow \text{M} > \text{L} \text{ olmalıdır.}$$

 Seçenekler incelenirse;
 $\text{MLN} = 542$ veya $\text{MLN} = 326$ olabilir.

• $\text{MLN} = 542$ ise
 $\text{MLN} - \text{LMN} = 90 \Rightarrow 542 - 90 = 452 = \text{LMN}$
 $\text{MLN} - \text{NLM} = 297 \Rightarrow 542 - 297 = 245 = \text{NLM}$
 $\text{MLN} = 542$ olur.

Cevap: A

3.
$$\begin{array}{r} 8 \text{ AB} \\ - 4 \text{ 2A} \\ \hline \text{A} \text{ C4} \end{array} \Rightarrow 8 - 4 = 4 = \text{A} \text{ olmalıdır.}$$

• $\text{A} = 4$ için;

$$\begin{array}{r} 8 \text{ 4B} \\ - 4 \text{ 24} \\ \hline 4 \text{ C4} \end{array} \Rightarrow 4 - 2 = \text{C} = 2 \text{ olur.}$$

Cevap: B

4.
$$\begin{array}{r} \text{M} \text{ 5 } \text{L} \\ + \text{L} \text{ M} \\ \hline 3 \text{ 5 } 1 \end{array} \Rightarrow \text{Onlar basamağı toplamına dikkat edilirse, } \text{L} = 9 \text{ olmalı ve birler basamağı toplamından elde 1 gelmeli.}$$

 $\Rightarrow \text{L} = 9 \text{ ve } \text{M} = 2 \text{ olur.}$

Cevap: B

5.
$$\begin{array}{r} \text{M} \text{ 2 } \text{N} \\ \times \text{8} \\ \hline 18 \text{ 1 } \text{L} \end{array} \Rightarrow 8 \cdot 2 = 16 \text{ dır. Sonucun birler basamağının 1 ile bitmesi için elde 5 eklenmelidir.}$$

 $\text{N} = 7 \text{ ve } \text{L} = 6 \text{ olmalıdır.}$

Cevap: D

6.
$$\begin{array}{r} \text{K} \text{ K} \\ \times \text{K} \text{ K} \\ \hline \text{L} \text{ M} \text{ K} \\ + \text{L} \text{ M} \text{ K} \\ \hline 30 \text{ L} \text{ K} \end{array} \Rightarrow \text{K} \cdot \text{K} = \text{K} \text{ K} = 5 \text{ veya } \text{K} = 6 \text{ olmalıdır. K} = 6 \text{ için çarpma işlemi gerçekleşemez.}$$

$\Rightarrow \text{K} = 5$ için;

$$\begin{array}{r} 55 \\ \times 55 \\ \hline 275 \end{array}$$

$$\begin{array}{r} 3025 \end{array} \Rightarrow \text{L} = 2 \text{ ve } \text{M} = 7 \text{ olur.}$$

Cevap: D

TEST - 2 ÇÖZÜMLER

$$\begin{array}{r}
 K \\
 + K \\
 \hline
 ML
 \end{array}
 \quad
 \begin{array}{r}
 K \\
 \times K \\
 \hline
 LM
 \end{array}$$

$K + K = ML$ $K \cdot K = LM$
 $2 \cdot K = ML$ $K^2 = LM$

$2K$ ve K^2 iki basamaklı olduğundan $K > 4$ olmalıdır.

O halde, $K = 9$ için;

$$2 \cdot 9 = ML \quad \text{ve} \quad 9 \cdot 9 = LM$$

$$18 = ML \quad \quad \quad 81 = LM$$

$$K + L + M = 9 + 8 + 1 = 18$$

Cevap: E

$$\begin{array}{r}
 KL \overline{M} \\
 + NM \overline{L} \\
 \hline
 1NN5
 \end{array}
 \Rightarrow M + L = \cdot 5 \text{ ise } M = 8 \text{ ve } L = 7$$

veya $M = 7$ ve $L = 8$ olabilir.
Her iki durumda da $N = 6$ ve $K = 9$ olmak zorundadır.

$$M = 8 \text{ ve } L = 7$$

$$\begin{array}{r}
 978 \\
 + 687 \\
 \hline
 1665
 \end{array}$$

$$M = 7 \text{ ve } L = 8$$

$$\begin{array}{r}
 987 \\
 + 678 \\
 \hline
 1665
 \end{array}$$

$$\Rightarrow K = 9 \text{ olur.}$$

Cevap: A

$$\begin{array}{r}
 \overline{MM} \\
 \times \overline{LM} \\
 \hline
 KLM \\
 + \overline{MM} \\
 \hline
 LKKL
 \end{array}
 \Rightarrow L \cdot MM = MM \text{ burdan } L = 1 \text{ olur.}$$

$$\begin{array}{r}
 \overline{MM} \\
 \times \overline{LM} \\
 \hline
 KML \\
 + \overline{MM} \\
 \hline
 LKKL
 \end{array}
 \Rightarrow M \cdot M = \cdot L = \cdot 1$$

olması için $M \cdot M$ çarpımının onlar basamağı 1 olmalı.
O halde; $M = 9$ olur.

$$\begin{array}{r}
 99 \\
 \times 19 \\
 \hline
 891 \\
 + 99 \\
 \hline
 1881
 \end{array}
 \Rightarrow L = 1 \text{ ve } K = 8 \Rightarrow K + L = 9$$

Cevap: C

10. $K = 8$, $L = 6$ ve $M = 4$ seçilirse

$$K \cdot K = LM \Rightarrow 8 \cdot 8 = 64$$

$$K \cdot L = MK \Rightarrow 8 \cdot 6 = 48$$

$$\Rightarrow K + L + M = 8 + 6 + 4 = 18 \text{ olur.}$$

Cevap: C

$$\begin{array}{r}
 \overline{K \cdot L} \\
 \times \overline{M \cdot} \\
 \hline
 \cdot MM \cdot \\
 + \overline{K \cdot L} \\
 \hline
 12345
 \end{array}
 \Rightarrow K \cdot M = K \Rightarrow M = 1 \text{ olur.}$$

Burdan $L = 3$ olur.

$$\begin{array}{r}
 K23 \\
 \times 15 \\
 \hline
 \cdot 115 \\
 + K23 \\
 \hline
 12345
 \end{array}
 \Rightarrow K = 2, 4, 6, 8$$

olabilir.

$$\Rightarrow K = 2, 4, 6, \text{ için çarpımın sonucu çıkmaz.}$$

$$\text{O halde } K = 8 \text{ olmalıdır.}$$

Cevap: D

$$\begin{array}{r}
 +1 \\
 \overline{KLM} \\
 \overline{KKK} \\
 + \overline{LKL} \\
 \hline
 \dots 2
 \end{array}
 \Rightarrow M + K + L = 12$$

$$\begin{array}{r}
 +2 \\
 \overline{KLM} \\
 \overline{KKK} \\
 + \overline{LKL} \\
 \hline
 \dots 02
 \end{array}
 \Rightarrow 2K + L + 1 = 19 + 1 = 20$$

$$\begin{array}{r}
 \overline{KLM} \\
 \overline{KKK} \\
 + \overline{LKL} \\
 \hline
 2102
 \end{array}
 \Rightarrow 2K + L = 19 + 2 = 21$$

Cevap: D

TEST - 2 ÇÖZÜMLER

13. $\begin{array}{r} \bullet \text{ KL} \text{ M} \\ \text{L} \text{ M} \\ + \text{ M} \text{ M} \end{array} \Rightarrow 3.M = \bullet M \Rightarrow M = 5 \text{ olmalıdır.}$
 $(3.5 = \bullet 5)$
 O halde $L = 7$ ve $K = 4$ olur.

$\bullet 475$
 75
 $+ 5$
 $\hline 555$
 $\Rightarrow K + L + M = 4 + 7 + 5 = 16$

Cevap: B

14. $\begin{array}{r} \text{KLM} \\ - \text{MLK} \end{array}$

$\begin{array}{c} \cdot 9 \cdot \\ \swarrow \searrow \end{array}$

Toplamları her zaman 9 olur.

$\begin{array}{r} \text{K9M} \\ - \text{M9K} \\ \hline 297 \end{array} \Rightarrow K = 7 \text{ ve } M = 4$

O halde; $K + M = 7 + 4 = 11$ olur.

Cevap: B

15. $\begin{array}{r} \text{KL} \\ \times \text{K} \\ \hline 18 \text{ K} \end{array}$ $K.K = 18$ çarpımının sonucu eldeyle beraber 18 çıkmıştır. Bunu sağlayan K değeri 4 olur.

 $\bullet K = 4$ için;

4D

$\begin{array}{r} \times 4 \\ \hline 184 \end{array} \Rightarrow L = 6 \text{ olmalıdır.}$
 $(4.L = \bullet 4)$

Cevap: C

16. $K + L = MN$ ve $M + N = K$

↓

$M + N$

$\Rightarrow M + N + L = 10M + N$

$M + L = 10M$

$L = 9M \Rightarrow M = 1$ ve $L = 9$ olur.

Cevap: E

17. $KLM - MKM = 101K + 10L - 101M - 10K$
 $= 101(K - M) + 10(L - K)$
 $= 101.2 + 10.(-3)$
 $= 202 - 30 = 172$ olur.

Cevap: A

18. $\begin{array}{r} \text{K K K} \\ \text{L L L} \\ + 3 \text{ M M} \\ \hline 2242 \end{array} \Rightarrow K + L + M = 22$

$\begin{array}{r} \text{K K K} \\ \text{L L L} \\ + 3 \text{ M M} \\ \hline 2242 \end{array} \Rightarrow K + L + 3 + 2 = 22$
 $K + L = 17$ olur.

Cevap: D

TEST - 3

$$1. \quad \begin{array}{r|l} AB & BA \\ \hline & 1 \\ \hline A & \end{array}$$

$$\Rightarrow A + B = ?$$

- A) 11 B) 13 C) 14 D) 16 E) 17

$$2. \quad y \neq z \neq m$$

$$\begin{array}{r|l} x & y \\ \hline m & z \\ \hline 1 & \end{array} \quad \begin{array}{r} x \\ + m \\ \hline 17 \end{array}$$

$$\Rightarrow x + y + z + m = ?$$

- A) 25 B) 23 C) 22 D) 21 E) 19

$$3. \quad \begin{array}{r|l} ABAB4 & AB \\ \hline & x \\ \hline y & \end{array}$$

$$\Rightarrow x + y = ?$$

- A) 101 B) 104 C) 105 D) 1010 E) 1014

$$4. \quad A \neq B \neq 0$$

$$\begin{array}{r|l} 1A8 & B5 \\ \hline & 7 \\ \hline 3 & \end{array}$$

$$\Rightarrow A = ?$$

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

$$5. \quad \begin{array}{r|l} x & y \\ \hline & 16.x \\ \hline 0 & \end{array}$$

$$\Rightarrow y = ?$$

- A) 0,025 B) 0,0125 C) 0,0625
D) 0,625 E) 0,125

$$6. \quad \begin{array}{r|l} K & y \\ \hline & M \\ \hline y-1 & \end{array} \quad \begin{array}{r|l} L & y \\ \hline & M+1 \\ \hline 0 & \end{array}$$

$$\Rightarrow K + L = ?$$

- A) $K - 1$ B) $2K - 2$ C) $2K - 1$
D) $2K + 1$ E) $2K$

TEST - 3

$$7. \begin{array}{r|l} x^2 - x & y \\ \hline & x \\ \hline & 1 \end{array}$$

$$\Rightarrow y + 1 = ?$$

- A) $\frac{x-1}{x}$ B) $\frac{x+1}{1}$ C) $\frac{1-x^2}{x}$
 D) $x^2 - 1$ E) $\frac{x^2-1}{x}$

$$8. x \neq y$$

$$\begin{array}{r|l} xy & x+y \\ \hline & 5 \\ \hline & 4 \end{array}$$

$$\Rightarrow x^2 + y^2 - 2xy = ?$$

- A) 0 B) 1 C) 2 D) 4 E) 6

$$9. \begin{array}{r|l} K & 7 \\ \hline & M \\ \hline & 3 \end{array} \quad \begin{array}{r|l} K+4 & M+1 \\ \hline & 7 \\ \hline & L \end{array}$$

$$\Rightarrow L = ?$$

- A) 0 B) 1 C) 3 D) 4 E) 5

$$10. \begin{array}{r|l} K & L \\ \hline & 5 \\ \hline & 2 \end{array} \quad \begin{array}{r|l} L & M \\ \hline & 4 \\ \hline & 3 \end{array}$$

$$\Rightarrow \frac{K+L+M-20}{5M} = ?$$

- A) 1 B) 3 C) 5 D) 7 E) 9

$$11. x \neq y \neq z$$

$$\frac{xx}{y} = zz, \quad \frac{zz}{y} = yy$$

$$\Rightarrow x + y + z = ?$$

- A) 12 B) 13 C) 14 D) 15 E) 16

$$12. \begin{array}{r} ABD \\ - BBC \\ \hline 294 \end{array} \quad \begin{array}{r} AC \\ - BD \\ \hline ? \end{array}$$

- A) 36 B) 37 C) 39 D) 40 E) 41

TEST - 3

13.
$$\begin{array}{r} \text{ACB} \\ + \text{AC} \\ \hline 3\text{BC} \end{array}$$

 $\Rightarrow \text{A.C} = ?$

- A) 12 B) 14 C) 16 D) 18 E) 21

14. $\text{A} \neq \text{B} \neq 0$

$$\begin{array}{r} \text{AB8} \\ - \text{AB} \\ \hline 49\text{B} \end{array}$$

 $\Rightarrow \text{A} + \text{B} = ?$

- A) 5 B) 7 C) 9 D) 11 E) 13

15.
$$\begin{array}{r} \text{AA} \\ + \text{BB} \\ \hline \text{CC0} \end{array} \quad \begin{array}{r} \text{A} \\ - \text{B} \\ \hline 4 \end{array}$$

 $\Rightarrow \text{B} + \text{C} = ?$

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

16.
$$\begin{array}{r} \text{ABC} \\ \text{CAB} \\ + \text{BCA} \\ \hline 1776 \end{array} \quad \begin{array}{r} \text{B} \\ - \text{C} \\ \hline 5 \end{array} \quad \begin{array}{r} \text{A} \\ - \text{C} \\ \hline 2 \end{array}$$

$\Rightarrow \text{A} = ?$

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

17.
$$\begin{array}{r} \text{ABC} \\ \text{BCA} \\ \text{ABC} \\ + \text{CAB} \\ \hline 1875 \end{array} \quad \text{A} + \text{B} + \text{C} = 12$$

$\Rightarrow \text{A.B} - \text{C} = ?$

- A) 10 B) 12 C) 16 D) 17 E) 18

18.
$$\begin{array}{r} \text{AB} \\ + \text{CD} \\ \hline 20 \end{array} \quad \begin{array}{r} \text{KM} \\ + \text{AB} \\ \hline 109 \end{array} \quad \begin{array}{r} \text{CD} \\ + \text{KM} \\ \hline 51 \end{array}$$

 $\Rightarrow \text{K} + \text{M} = ?$

- A) 5 B) 6 C) 7 D) 8 E) 13

TEST - 3 ÇÖZÜMLER

1. $\begin{array}{r|l} AB & BA \\ - & 1 \\ \hline A & \end{array} \Rightarrow AB = BA + A$
 $10A + B = 10B + A + A$
 $10A - 2A = 10B - B$
 $8A = 9B \Rightarrow A = 9, B = 8$
ve $A + B = 9 + 8 = 17$

Cevap: E

2. $\begin{array}{r|l} x & y \\ - & z \\ \hline m & \\ 1 & \end{array} \Rightarrow x - m = 1 \text{ olur.}$

• $x + m = 17$
 $+ x - m = 1$
 $\hline 2x = 18 \quad x = 9 \text{ ve } m = 8 \text{ olur.}$

• $x = y.z + 1$
 $9 = y.z + 1 \text{ (} y > 1 \text{ olmalı.)}$
 $y.z = 8$
 4.2

$\Rightarrow x + y + z + m = 9 + 4 + 2 + 8 = 23$

Cevap: B

3. $\begin{array}{r|l} ABAB4 & AB \\ - AB & 1010 \\ \hline 00AB & \\ - AB & \\ \hline 04 & \end{array} \Rightarrow 1010 + 4 = 1014$

Cevap: E

4. $\begin{array}{r|l} 1A8 & B5 \\ - & 7 \\ \hline 3 & \end{array} \Rightarrow 1A8 = 7(B5) + 3$
 $108 + 10A = 70B + 35 + 3$
 $108 - 38 = 70B - 10A$
 $70 = 70B - 10A$
 $7B - A = 7$
 $\downarrow \quad \downarrow$
 $2 \quad 7 \Rightarrow A = 7 \text{ olur.}$

Cevap: D

5. $\begin{array}{r|l} x & y \\ - & 16.x \\ \hline 0 & \end{array} \Rightarrow \frac{1}{x} = 16.x.y$
 $1 = 16.y$
 $y = \frac{1}{16} = 0,0625$

Cevap: C

6. $\begin{array}{r|l} K & y \\ - & M \\ \hline y-1 & \end{array} \Rightarrow \text{i) } K = y.M + y - 1$

$\begin{array}{r|l} L & y \\ - & M+1 \\ \hline 0 & \end{array} \Rightarrow \text{ii) } L = y(M+1) = ym + y$

$\Rightarrow \text{i) } K = y.M + y - 1$

$K = L - 1 \text{ ve } L = K + 1$

O halde $K + L = K + K + 1 = 2K + 1 \text{ olur.}$

$K+1$

Cevap: D

7. $\begin{array}{r|l} x^2 - x & y \\ - & x \\ \hline 1 & \end{array} \Rightarrow x^2 - x = yx + 1$
 $x^2 - 1 = yx + x$
 $x^2 - 1 = x(y + 1)$
 $y + 1 = \frac{x^2 - 1}{x}$

Cevap: E

TEST - 3 ÇÖZÜMLER

$$\begin{array}{r}
 xy \overline{) x+y} \\
 \underline{ 5} \\
 4
 \end{array}
 \Rightarrow xy = 5(x+y) + 4$$

$$\begin{array}{r}
 10x + y = 5x + 5y + 4 \\
 5x - 4y = 4 \\
 \downarrow \quad \downarrow \\
 8 \quad 9
 \end{array}$$

$$x^2 + y^2 - 2xy = (x - y)^2 = (8 - 9)^2 = 1$$

Cevap: B

$$\begin{array}{r}
 K \overline{) 7} \\
 \underline{ 3} \\
 3
 \end{array}
 \Rightarrow i) K = 7M + 3$$

$$\begin{array}{r}
 K+4 \overline{) M+1} \\
 \underline{ 7} \\
 L
 \end{array}
 \Rightarrow ii) K+4 = 7(M+1) + L$$

$$K+4 = 7M + 7 + L$$

$$\Rightarrow K+4 = 7M + 7 + L$$

$$7M + 3 + 4 = 7M + 7 + L$$

$$7M + 7 = 7M + 7 + L$$

$$L = 0 \text{ olur.}$$

Cevap: A

$$\begin{array}{r}
 K \overline{) L} \\
 \underline{ 5} \\
 2
 \end{array}
 \Rightarrow i) K = 5L + 2$$

$$\begin{array}{r}
 L \overline{) M} \\
 \underline{ 4} \\
 3
 \end{array}
 \Rightarrow ii) L = 4M + 3$$

$$\Rightarrow i) K = 5L + 2 = 5(4M + 3) + 2 = 20M + 17$$

$$\begin{array}{r}
 \downarrow \\
 4M + 3
 \end{array}$$

$$\Rightarrow \frac{K+L+M-20}{5M} = \frac{20M+17+4M+3+M-20}{5M}$$

$$= \frac{25M}{5M} = 5$$

Cevap: C

$$11. i) \frac{xx}{y} = zz \Rightarrow \frac{11 \cdot x}{y} = 11 \cdot z \Rightarrow x = y \cdot z$$

$$ii) \frac{zz}{y} = yy \Rightarrow \frac{11 \cdot z}{y} = 11 \cdot y \Rightarrow z = y^2$$

O halde $x = y \cdot z = y^3$ ise;

$$\downarrow \\ y^2$$

 $y = 2$ için; $x = 8$ ve $z = 4$ olur. $\Rightarrow x + y + z = 8 + 2 + 4 = 14$ olur.

Cevap: C

$$\begin{array}{r}
 1 \\
 \overline{) \begin{array}{c} A \quad BD \\ - B \quad BC \\ \hline 2 \quad 94 \end{array}}
 \end{array}
 \Rightarrow A - B = 3 \text{ olmalıdır.}$$

Çünkü B yüzler basamağından bir onluk almış.

$$\Rightarrow ABD - BBC = 294$$

$$100A + 10B + D - 110B - C = 294$$

$$100A - 100B + D - C = 294$$

$$100(A - B) + D - C = 294$$

$$\begin{array}{r}
 \downarrow \\
 100 \cdot 3 + D - C = 294 \\
 6 = C - D \quad \begin{array}{r} AC \\ - BD \\ \hline 36 \text{ olur.} \end{array}
 \end{array}$$

Cevap: A

$$13. \begin{array}{r} ACB \\ + AC \\ \hline 3B \quad C \end{array} \Rightarrow B + C = C \text{ ise } B = 0 \text{ olur.}$$

$$\begin{array}{r}
 1 \\
 \overline{) \begin{array}{c} A \quad C \quad B \\ + A \quad C \\ \hline 3 \quad B \quad C \end{array}}
 \end{array}
 \Rightarrow C + A = \cdot B \Rightarrow C + A = \cdot 0 \text{ ve } A + C = 10 \text{ olur.}$$

O halde $A = 2$ ve $C = 8$ dir. $\Rightarrow A \cdot C = 2 \cdot 8 = 16$ olur.

Cevap: C

TEST - 3 ÇÖZÜMLER

14. AB8

$$\begin{array}{r} \text{AB} \\ - \text{AB} \\ \hline 49\text{B} \end{array} \Rightarrow \text{AB}8 - \text{AB} = 49\text{B}$$

$$10(\text{AB}) + 8 - (\text{AB}) = 49\text{B}$$

$$9(\text{AB}) + 8 = 49\text{B}$$

$$9.(54) + 8 = 494$$

$$\uparrow \quad \quad \uparrow$$

$$\text{B} = 4 \text{ için sağlar.}$$

• O halde AB = 54 ise; A + B = 5 + 4 = 9

Cevap: C

15.

$$\begin{array}{r} \text{A} \text{ A} \\ + \text{B} \text{ B} \\ \hline \text{CC} \text{ 0} \end{array} \Rightarrow \text{A} + \text{B} = 0 \text{ ise } \text{A} + \text{B} = 10 \text{ olur.}$$

$$\begin{array}{r} \text{A} - \text{B} = 4 \\ + \text{A} + \text{B} = 10 \\ \hline 2\text{A} = 14 \\ \text{A} = 7 \text{ ve } \text{B} = 3 \text{ olur.} \end{array}$$

$$\begin{array}{r} 77 \\ + 33 \\ \hline 110 \end{array} \Rightarrow \text{C} = 1 \text{ olur.}$$

$$\Rightarrow \text{B} + \text{C} = 3 + 1 = 4 \text{ çıkar.}$$

Cevap: B

16.

$$\begin{array}{r} \text{AB} \text{ C} \\ \text{CA} \text{ B} \\ + \text{BC} \text{ A} \\ \hline 177 \text{ 6} \end{array} \Rightarrow \text{A} + \text{B} + \text{C} = 16 \text{ olur.}$$

$$\begin{array}{r} \text{B} - \text{C} = 5 \\ + \text{A} - \text{C} = 2 \\ \hline \end{array}$$

$$\text{A} + \text{B} - 2\text{C} = 7 \Rightarrow \text{A} + \text{B} = 2\text{C} + 7$$

$$\text{A} + \text{B} + \text{C} = 16$$

$$\downarrow$$

$$2\text{C} + 7 + \text{C} = 16$$

$$3\text{C} = 9$$

$$\text{C} = 3$$

$$\text{A} - \text{C} = 2 \Rightarrow \text{A} - 3 = 2$$

$$\downarrow$$

$$\text{A} = 5 \text{ olur.}$$

Cevap: C

17.

$$\begin{array}{r} \text{AB} \text{ C} \\ \text{BC} \text{ A} \\ \text{AB} \text{ C} \\ + \text{CA} \text{ B} \\ \hline 187 \text{ 5} \end{array} \Rightarrow \text{A} + \text{B} + \text{C} + \text{C} = 15 \Rightarrow 12 + \text{C} = 15$$

$$\downarrow$$

$$\text{C} = 3$$

$$\begin{array}{r} \text{AB} \text{ C} \\ \text{BC} \text{ A} \\ \text{AB} \text{ C} \\ + \text{CA} \text{ B} \\ \hline 187 \text{ 5} \end{array} \Rightarrow \text{A} + \text{B} + \text{C} + \text{B} + 1 = 17 \Rightarrow 13 + \text{B} = 17$$

$$\downarrow$$

$$\text{B} = 4$$

$$\begin{array}{r} \text{AB} \text{ C} \\ \text{BC} \text{ A} \\ \text{AB} \text{ C} \\ + \text{CA} \text{ B} \\ \hline 187 \text{ 5} \end{array} \Rightarrow \text{A} + \text{B} + \text{C} + \text{A} + 1 = 18 \Rightarrow 13 + \text{A} = 18$$

$$\downarrow$$

$$\text{A} = 5$$

$$\Rightarrow \text{A.B} - \text{C} = 5.4 - 3 = 17 \text{ olur.}$$

Cevap: D

18.

$$\begin{array}{r} \text{AB} \\ + \text{CD} \\ \hline 20 \end{array} \Rightarrow \text{i) } \text{AB} + \text{CD} = 20$$

$$\begin{array}{r} \text{KM} \\ + \text{AB} \\ \hline 109 \end{array} \Rightarrow \text{ii) } \text{KM} + \text{AB} = 109$$

$$\begin{array}{r} \text{CD} \\ + \text{KM} \\ \hline 51 \end{array} \Rightarrow \text{iii) } \text{CD} + \text{KM} = 51$$

$$\text{O halde iii) } \text{CD} + \text{KM} = 51$$

$$\text{i) } - \text{AB} + \text{CD} = 20$$

$$\text{iv) } \text{KM} - \text{AB} = 31$$

$$\Rightarrow \text{ii) } \text{KM} + \text{AB} = 109$$

$$\text{iv) } + \text{KM} - \text{AB} = 31$$

$$2(\text{KM}) = 140$$

$$\text{KM} = 70 \Rightarrow \text{K} + \text{M} = 7 + 0 = 7 \text{ olur.}$$

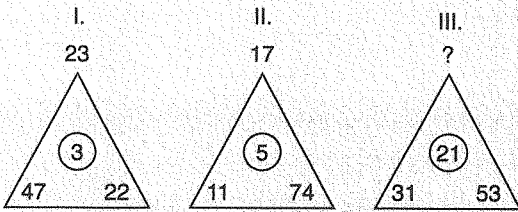
Cevap: C

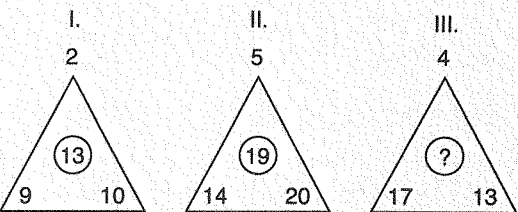


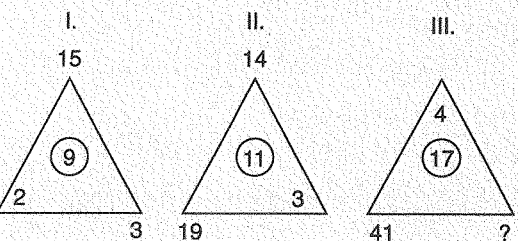
SAYI BAĞINTILARI

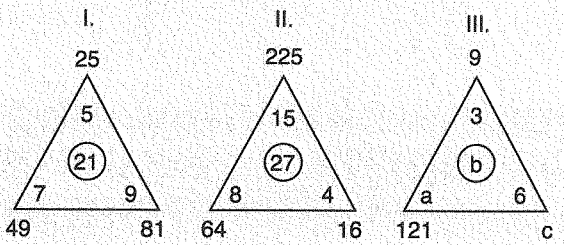
(NUMBER RELATIONS)

TEST - 1

1. I. II. III.
- 
- A) 3 B) 4 C) 5 D) 7 E) 9

2. I. II. III.
- 
- A) 12 B) 13 C) 17 D) 18 E) 20

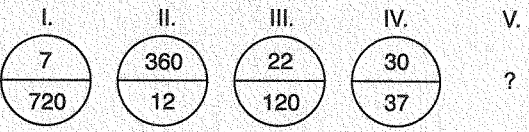
3. I. II. III.
- 
- A) 17 B) 19 C) 21 D) 24 E) 27

4. I. II. III.
- 

$$\Rightarrow a + b + c = ?$$

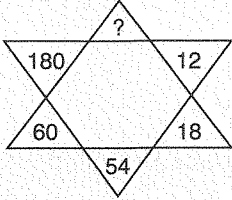
- A) 27 B) 30 C) 33 D) 35 E) 67

TASARI AKADEMİ YAYINLARI

5. I. II. III. IV. V.
- 
- A)  B)  C) 
- D)  E) 

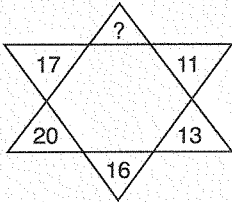
TEST - 1

6.



- A) 540 B) 240 C) 6 D) 4 E) 2

7.



- A) 7 B) 9 C) 11 D) 14 E) 19

8.

$$\triangle 5 = 125$$

$$\hexagon 2 = 64$$

$$\square 3 = 81$$

$$\pentagon 4 = ?$$

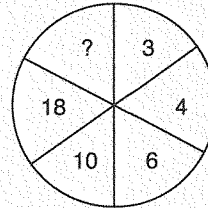
- A) 64 B) 128 C) 256 D) 512 E) 1024

9.

I.		II.		III.	
3	4	80	4	14	21
16	12	2	40	3	?

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

10.



- A) 22 B) 26 C) 32 D) 34 E) 36

11.

I.		II.		III.	
21	18	14	21	42	11
	54		42		?

- A) 54 B) 62 C) 66 D) 69 E) 72

TEST - 1

12.

6	18	4	27
9	21	7	27
33	?	11	21
12	8	16	6

- A) 7 B) 9 C) 10 D) 14 E) 16

13.

417	147	741	714
715	175	571	517
309	039	?	903

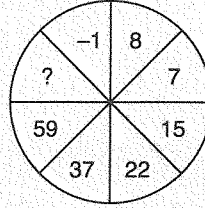
- A) 930 B) 093 C) 309 D) 390 E) 039

14.

5	144	7
9	225	6
3	121	?

- A) 5 B) 6 C) 7 D) 8 E) 11

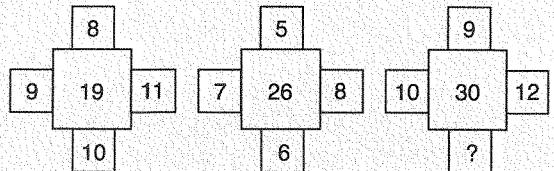
15.



- A) 72 B) 81 C) 83 D) 87 E) 96

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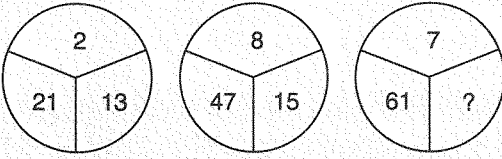
16.



- A) 8 B) 9 C) 10 D) 11 E) 13

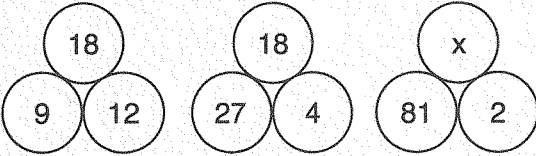
TEST - 1

17.



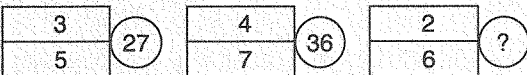
- A) 37 B) 33 C) 30 D) 28 E) 24

18.



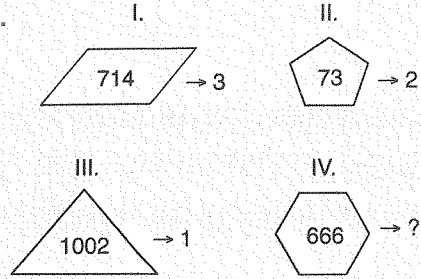
- A) 10 B) 12 C) 18 D) 27 E) 36

19.



- A) 32 B) 27 C) 24 D) 22 E) 20

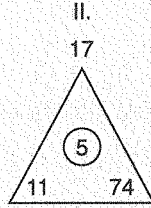
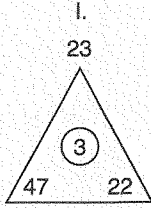
20.



- A) 1 B) 2 C) 3 D) 4 E) 6

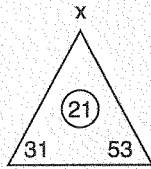
TEST - 1 ÇÖZÜMLER

1.



$$\Rightarrow (47 + 22) : 23 = \textcircled{3} \quad \Rightarrow (11 + 74) : 17 = \textcircled{5}$$

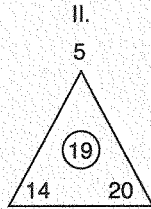
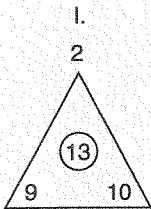
III. O halde



$$\begin{aligned} \Rightarrow (31 + 53) : x &= \textcircled{21} \\ 84 : x &= 21 \\ \Rightarrow x &= 4 \text{ olur.} \end{aligned}$$

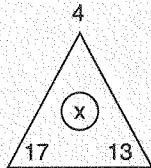
Cevap: B

2.



$$\Rightarrow (9 + 10) - 3.2 = \textcircled{13} \quad \Rightarrow (14 + 20) - 3.5 = \textcircled{19}$$

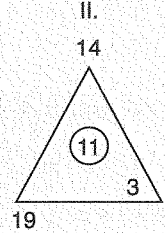
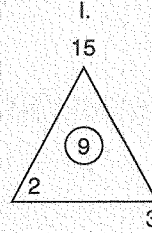
III. O halde



$$\begin{aligned} \Rightarrow (17 + 13) - 3.4 &= x \\ 30 - 12 &= x \\ \Rightarrow 18 &= x \end{aligned}$$

Cevap: D

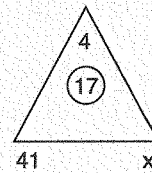
3.



$$\Rightarrow 2. \textcircled{9} = 15 + 3$$

$$\Rightarrow 3. \textcircled{11} = 14 + 19$$

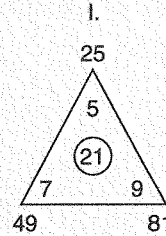
III. O halde



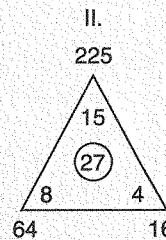
$$\begin{aligned} \Rightarrow 4. \textcircled{17} &= 41 + x \\ 68 &= 41 + x \\ \Rightarrow x &= 27 \text{ olur.} \end{aligned}$$

Cevap: E

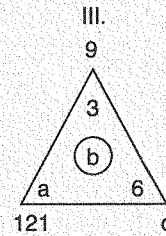
4.



$$\begin{aligned} 5^2 &= 25 \\ \Rightarrow 7^2 &= 49 \Rightarrow \textcircled{21} = 5 + 7 + 9 \\ 9^2 &= 81 \end{aligned}$$



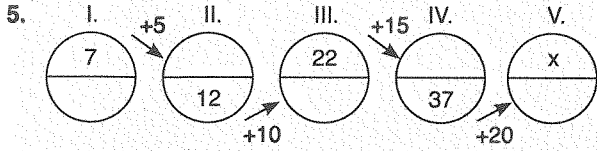
$$\begin{aligned} 15^2 &= 225 \\ \Rightarrow 8^2 &= 64 \Rightarrow \textcircled{27} = 15 + 8 + 4 \\ 4^2 &= 16 \end{aligned}$$



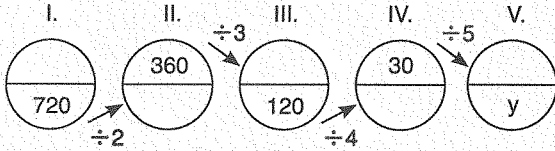
$$\begin{aligned} 3^2 &= 9 \\ \Rightarrow a^2 &= 121 \Rightarrow a = 11 \\ 6^2 &= c \Rightarrow c = 36 \\ \Rightarrow a + b + c &= 11 + 20 + 36 = 67 \end{aligned}$$

Cevap: E

TEST - 1 ÇÖZÜMLER



$$\Rightarrow x = 37 + 20 = 57$$

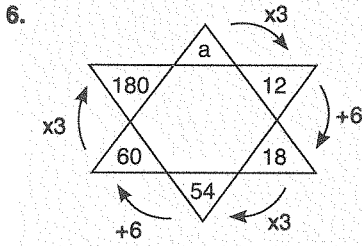


$$\Rightarrow y = 30 \div 5 = 6$$

O halde V.



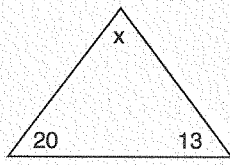
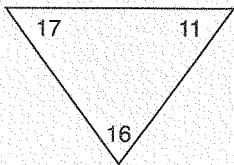
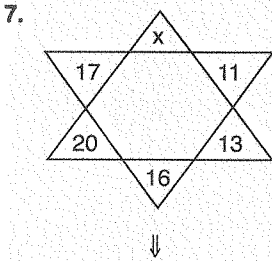
Cevap: A



$$\Rightarrow a \times 3 = 12$$

$$a = 4$$

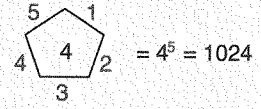
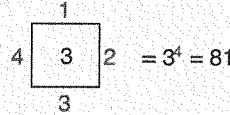
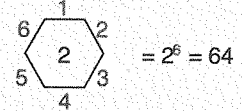
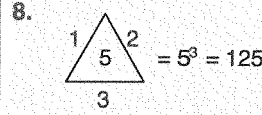
Cevap: D



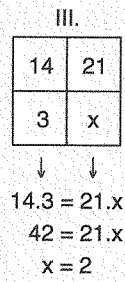
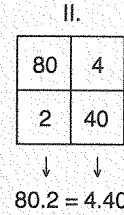
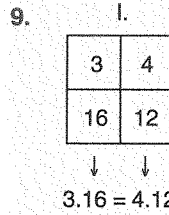
$$17 + 11 + 16 = 20 + 13 + x$$

$$11 = x$$

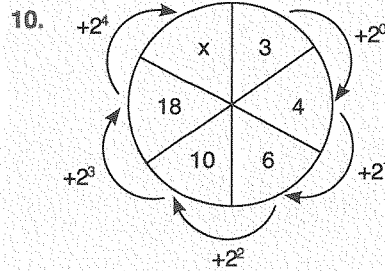
Cevap: C



Cevap: E



Cevap: A



$$\Rightarrow x = 18 + 2^4 = 34$$

Cevap: D

TEST - 1 ÇÖZÜMLER

11.

I.

	18
21	
	54

$$\Rightarrow (54 : 18) \cdot 7 = 21$$

II.

	21
14	
	42

$$\Rightarrow (42 : 21) \cdot 7 = 14$$

III.

	11
42	
	x

$$\Rightarrow (x : 11) \cdot 7 = 42$$

$$x : 11 = 6$$

$$x = 66$$

Cevap: C

13.

417	147	741	714
715	175	571	517
309	039	?	903

$$\hat{4}17 \rightarrow \hat{1}47 \rightarrow \hat{7}41 \rightarrow 714$$

$$\hat{7}15 \rightarrow \hat{1}75 \rightarrow \hat{5}71 \rightarrow 517$$

$$\hat{3}09 \rightarrow \hat{0}39 \rightarrow \hat{9}30 \rightarrow 903$$

Cevap: A

14.

5	144	7
9	225	6
3	121	x

$$\rightarrow (5 + 7)^2 = 144$$

$$\rightarrow (9 + 6)^2 = 225$$

$$\rightarrow (3 + x)^2 = 121 \Rightarrow 3 + x = 11$$

$$x = 8$$

Cevap: D

12.

6	18	4	27
9	21	7	27
33	x	11	21
12	8	16	6

$$(6 \cdot 18) : 4 = 27$$

$$(9 \cdot 21) : 7 = 27$$

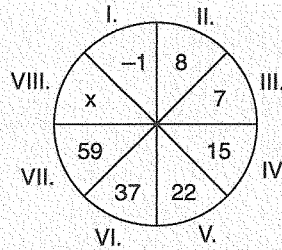
$$(33 \cdot x) : 11 = 21$$

$$\Rightarrow 3x = 21 \Rightarrow x = 7$$

$$(12 \cdot 8) : 16 = 6$$

Cevap: A

15.



$$I. + II. = III. \Rightarrow -1 + 8 = 7$$

$$II. + III. = IV. \Rightarrow 8 + 7 = 15$$

$$III. + IV. = V. \Rightarrow 7 + 15 = 22$$

$$IV. + V. = VI. \Rightarrow 15 + 22 = 37$$

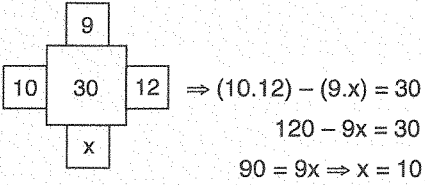
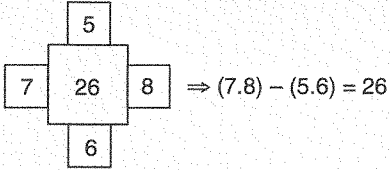
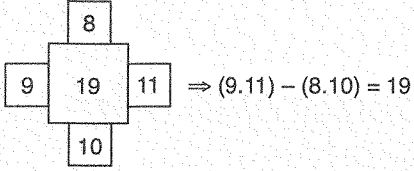
$$V. + VI. = VII. \Rightarrow 22 + 37 = 59$$

$$VI. + VII. = x \Rightarrow 37 + 59 = 96$$

Cevap: E

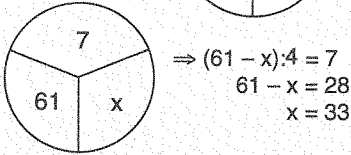
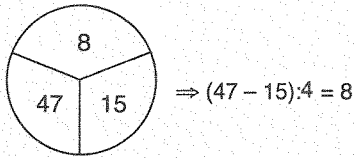
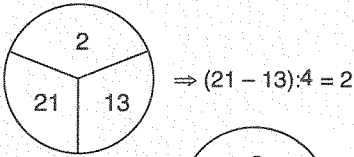
TEST - 1 ÇÖZÜMLER

16.



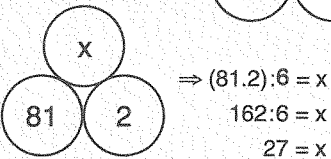
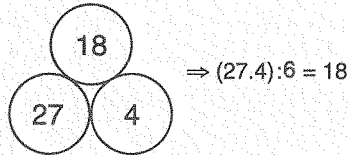
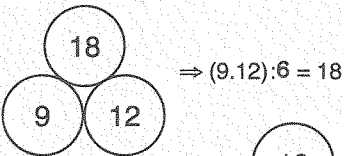
Cevap: C

17.



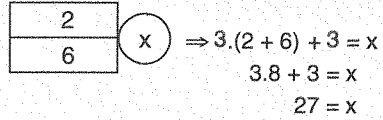
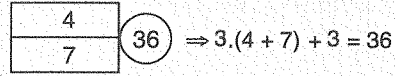
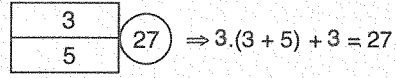
Cevap: B

18.



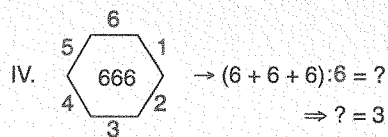
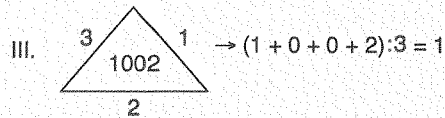
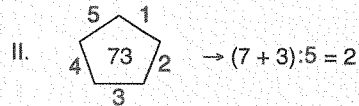
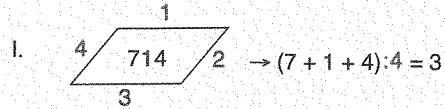
Cevap: D

19.



Cevap: B

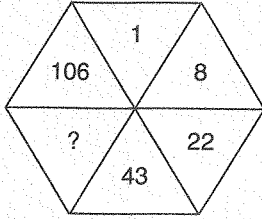
20.



Cevap: C

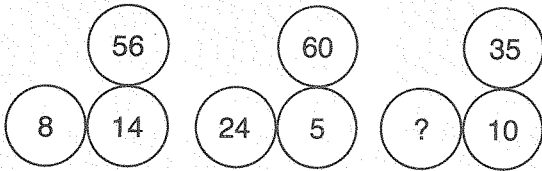
TEST - 2

1.



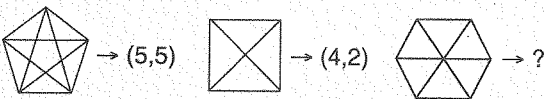
- A) 71 B) 74 C) 79 D) 81 E) 91

2.



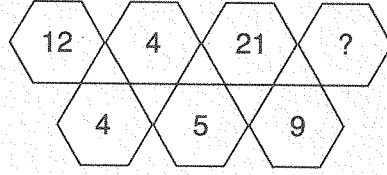
- A) 4 B) 7 C) 8 D) 10 E) 12

3.



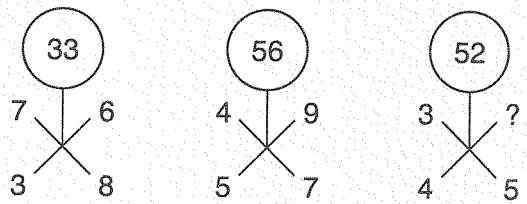
- A) (6,6) B) (3,4) C) (3,6) D) (4,3) E) (6,3)

4.



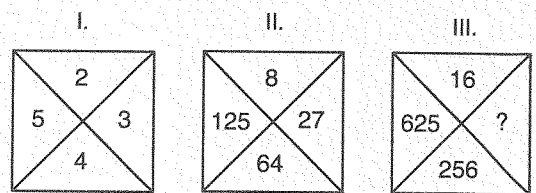
- A) 48 B) 52 C) 56 D) 60 E) 62

5.



- A) 5 B) 6 C) 9 D) 11 E) 12

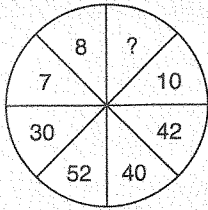
6.



- A) 18 B) 21 C) 81 D) 243 E) 343

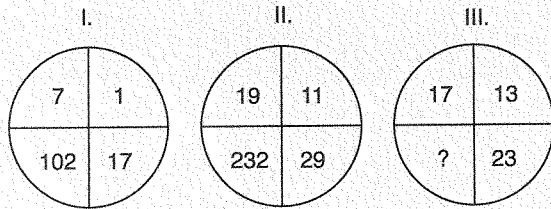
TEST - 2

7.



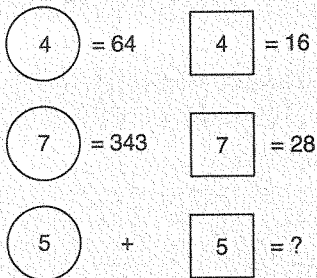
- A) 9 B) 10 C) 11 D) 12 E) 13

8.



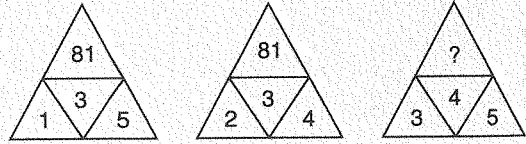
- A) 72 B) 76 C) 82 D) 92 E) 96

9.



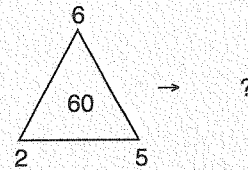
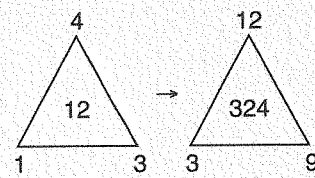
- A) 127 B) 145 C) 150 D) 160 E) 161

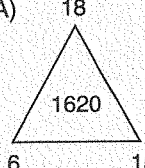
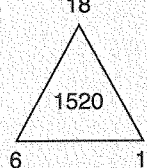
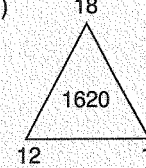
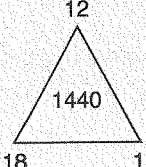
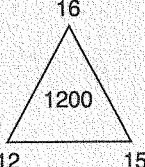
10.



- A) 81 B) 100 C) 121 D) 144 E) 156

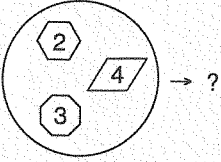
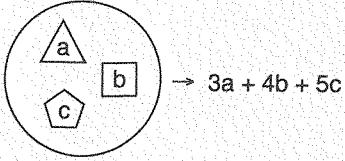
11.



- A)  B)  C) 
- D)  E) 

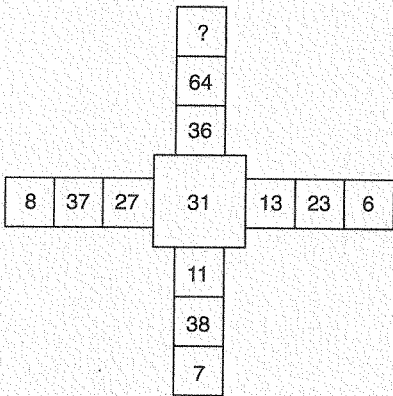
TEST - 2

12.



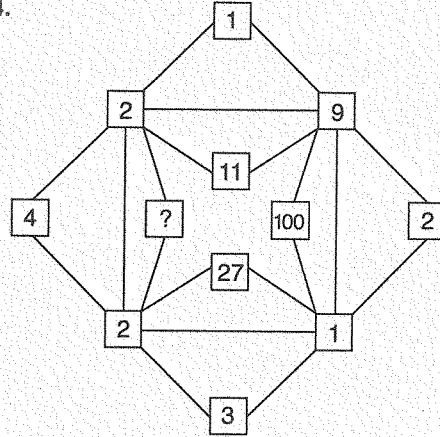
- A) 34 B) 46 C) 52 D) 54 E) 58

13.



- A) 7 B) 8 C) 9 D) 10 E) 11

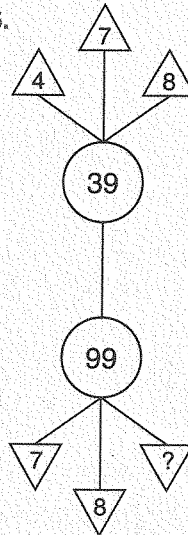
14.



- A) 110 B) 121 C) 144 D) 256 E) 296

TASARI AKADEMİ YAYINLARI

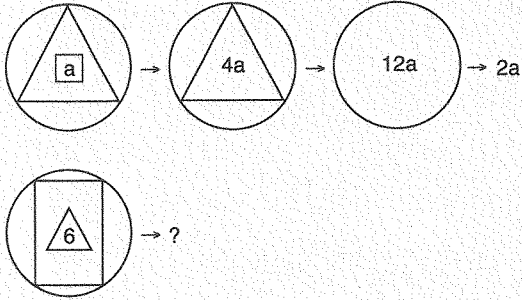
15.



- A) 13 B) 14 C) 15 D) 17 E) 19

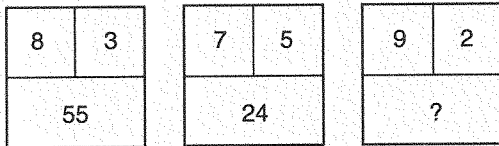
TEST - 2

16.



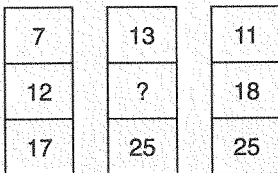
- A) 12 B) 18 C) 24 D) 36 E) 72

17.



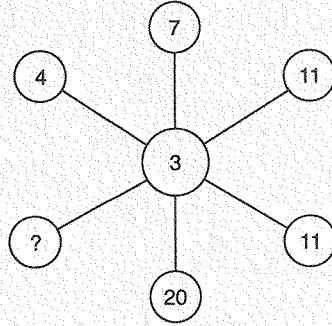
- A) 11 B) 42 C) 49 D) 77 E) 99

18.



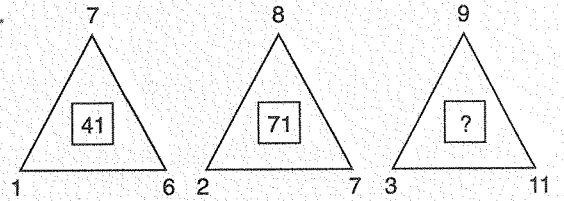
- A) 14 B) 15 C) 16 D) 18 E) 19

19.



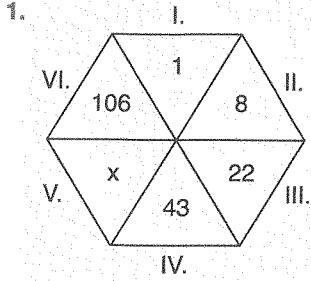
- A) 20 B) 24 C) 32 D) 33 E) 36

20.



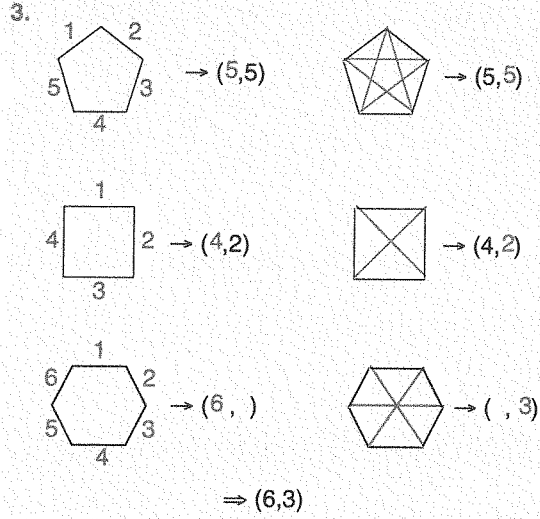
- A) 72 B) 41 C) 39 D) 36 E) 32

TEST - 2 ÇÖZÜMLER

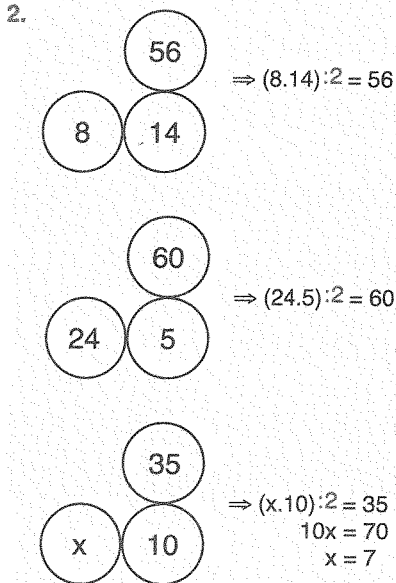


$$\begin{aligned}
 \text{I.} \rightarrow \text{II.} & \quad 1 + 1.7 = 8 \\
 \text{II.} \rightarrow \text{III.} & \quad 8 + 2.7 = 22 \\
 \text{III.} \rightarrow \text{IV.} & \quad 22 + 3.7 = 43 \\
 \text{IV.} \rightarrow \text{V.} & \quad 43 + 4.7 = x \Rightarrow x = 71 \\
 \text{V.} \rightarrow \text{VI.} & \quad 71 + 5.7 = 106
 \end{aligned}$$

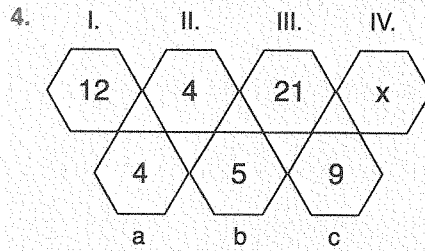
Cevap: A



Cevap: E



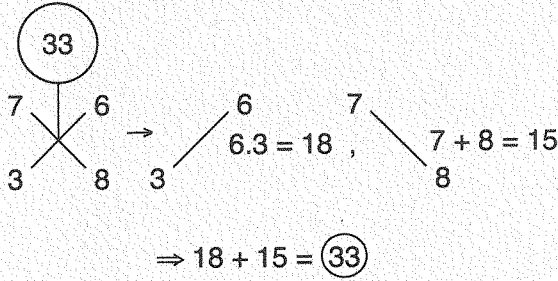
Cevap: B



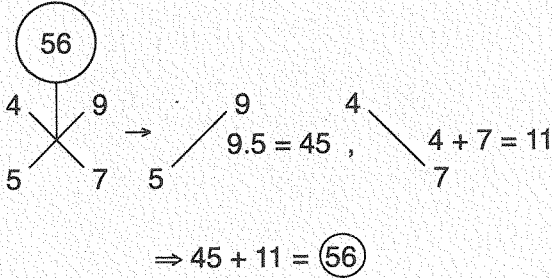
$$\begin{aligned}
 \text{I.} + \text{II.} &= a^2 \rightarrow 12 + 4 = 4^2 \\
 \text{II.} + \text{III.} &= b^2 \rightarrow 4 + 21 = 5^2 \\
 \text{III.} + \text{IV.} &= c^2 \rightarrow 21 + x = 9^2 \\
 & \quad 21 + x = 81 \\
 & \quad x = 60
 \end{aligned}$$

Cevap: D

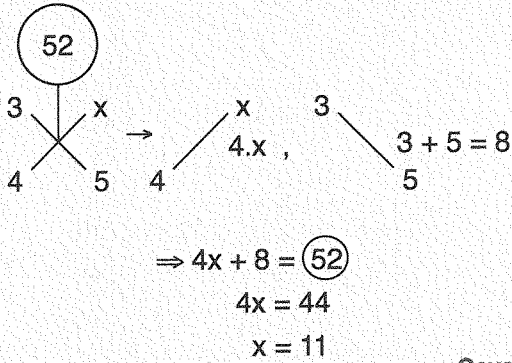
TEST - 2 ÇÖZÜMLER

5. 

$$\Rightarrow 18 + 15 = 33$$



$$\Rightarrow 45 + 11 = 56$$

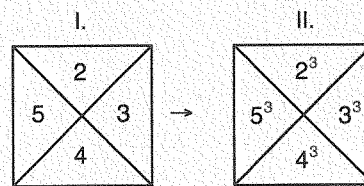
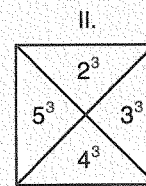


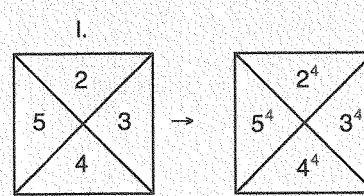
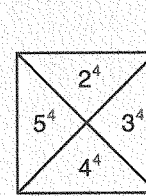
$$\Rightarrow 4x + 8 = 52$$

$$4x = 44$$

$$x = 11$$

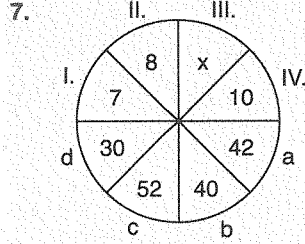
Cevap: D

6. I.  II. 

I.  II. 

$$\Rightarrow ? = 3^4 = 81$$

Cevap: C



$$(I.). 6 = a \rightarrow 7.6 = 42$$

$$(II.). 5 = b \rightarrow 8.5 = 40$$

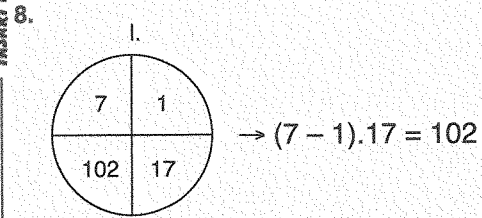
$$(III.). 4 = c \rightarrow x.4 = 52$$

$$(IV.). 3 = d \rightarrow 10.3 = 30$$

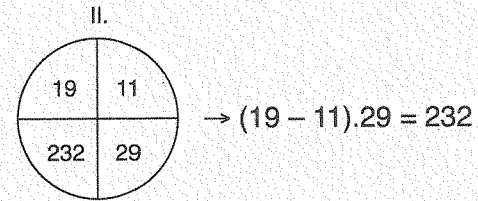
$$\Rightarrow x.4 = 52$$

$$x = 13$$

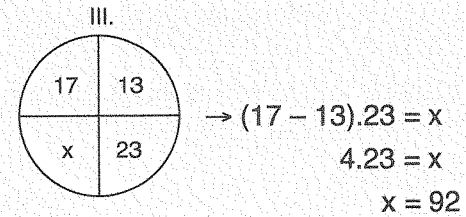
Cevap: E

8. I. 

$$\rightarrow (7 - 1).17 = 102$$

II. 

$$\rightarrow (19 - 11).29 = 232$$

III. 

$$\rightarrow (17 - 13).23 = x$$

$$4.23 = x$$

$$x = 92$$

Cevap: D

TEST - 2 ÇÖZÜMLER

9. $\begin{array}{|c|} \hline 4 \\ \hline \end{array} = 4^3 = 64$ $\begin{array}{|c|} \hline 4 \\ \hline \end{array} = 4.4 = 16$

$\begin{array}{|c|} \hline 7 \\ \hline \end{array} = 7^3 = 343$ $\begin{array}{|c|} \hline 7 \\ \hline \end{array} = 4.7 = 28$

$\begin{array}{|c|} \hline 5 \\ \hline \end{array} = 5^3 = 125$ $\begin{array}{|c|} \hline 5 \\ \hline \end{array} = 4.5 = 20$

$\Rightarrow 125 + 20 = 145$

Cevap: B

10. $\begin{array}{c} \triangle \\ \hline 1 \quad 3 \quad 5 \\ \hline \end{array} \rightarrow (1 + 3 + 5)^2 = 81$

$\begin{array}{c} \triangle \\ \hline 2 \quad 3 \quad 4 \\ \hline \end{array} \rightarrow (2 + 3 + 4)^2 = 81$

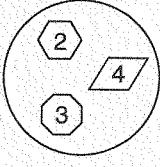
$\begin{array}{c} \triangle \\ \hline x \quad 4 \quad 5 \\ \hline 3 \quad 4 \quad 5 \\ \hline \end{array} \rightarrow (3 + 4 + 5)^2 = x$
 $12^2 = x$
 $x = 144$

Cevap: D

11. $\begin{array}{c} 4 \\ \triangle \\ 4.3.1 \\ \hline 1 \quad 3 \end{array} \rightarrow \begin{array}{c} 4.3 \\ \triangle \\ 3.9.12 \\ \hline 1.3 \quad 3.3 \end{array}$

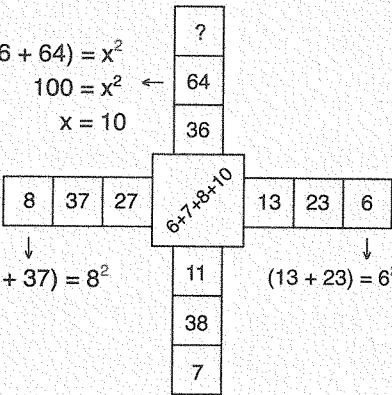
$\begin{array}{c} 6 \\ \triangle \\ 2.5.6 \\ \hline 2 \quad 5 \end{array} \rightarrow \begin{array}{c} 6.3 \\ \triangle \\ 6.15.18 \\ \hline 2.3 \quad 5.3 \end{array} \rightarrow \begin{array}{c} 18 \\ \triangle \\ 1620 \\ \hline 6 \quad 15 \end{array}$

Cevap: A

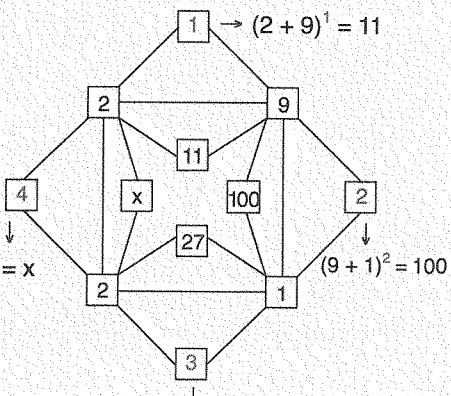
12. 

$\rightarrow 6.2 + 4.4 + 8.3 = 12 + 16 + 24 = 52$

Cevap: C

13. 

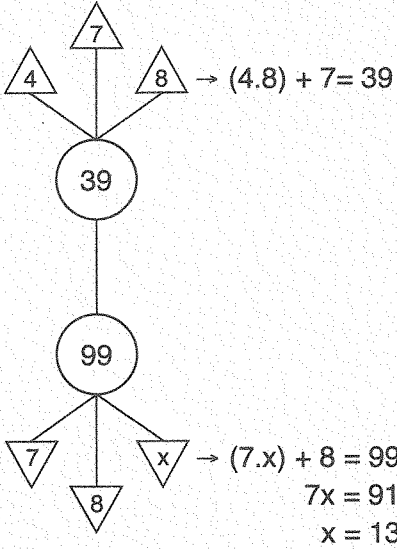
Cevap: D

14. 

Cevap: D

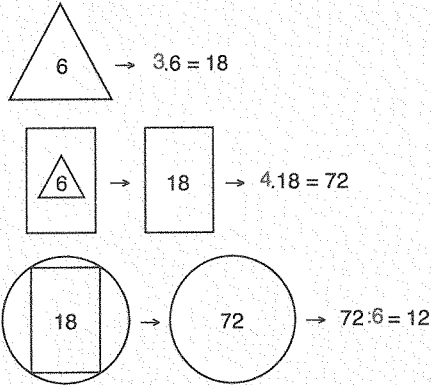
TEST - 2 ÇÖZÜMLER

15.



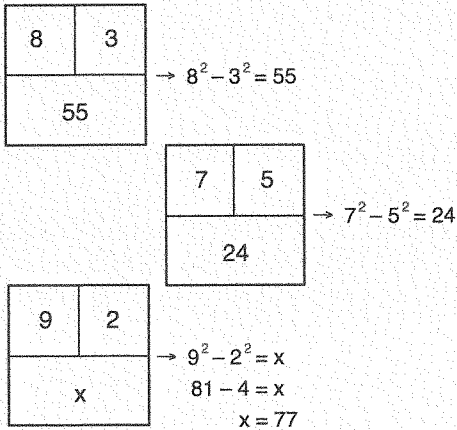
Cevap: A

16.



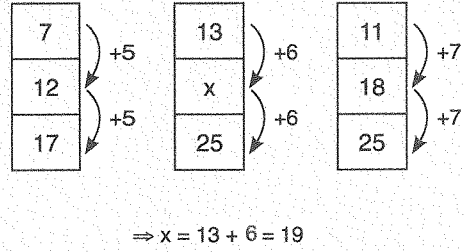
Cevap: A

17.



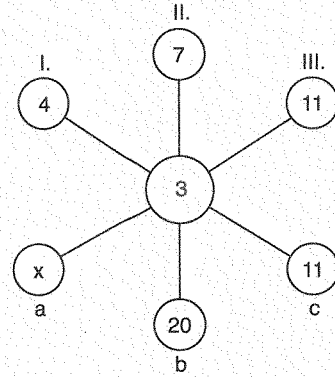
Cevap: D

18.



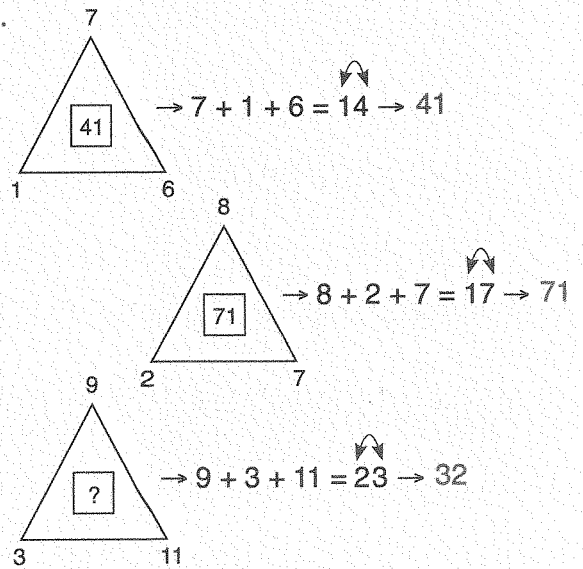
Cevap: E

19.



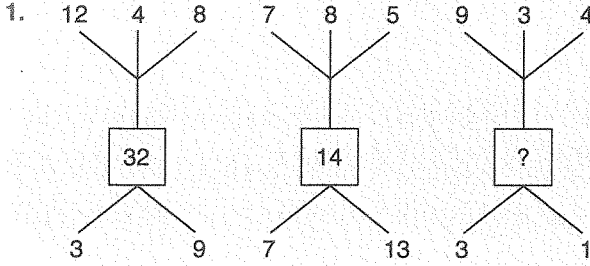
Cevap: C

20.

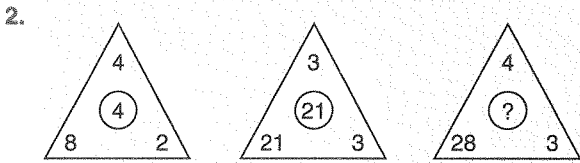


Cevap: E

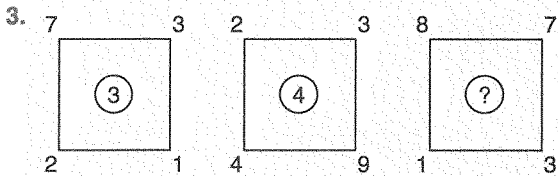
TEST - 3



A) 27 B) 32 C) 36 D) 42 E) 54



A) 49 B) 36 C) 28 D) 27 E) 21

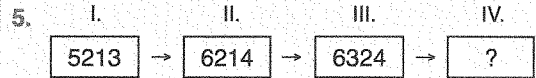


A) 1 B) 3 C) 7 D) 9 E) 11

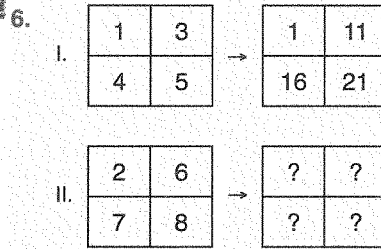
4.

I.	60	12
II.	36	9
III.	?	3
IV.	26	13

A) 3 B) 6 C) 9 D) 12 E) 27



A) 6214 B) 7324 C) 6434
D) 6325 E) 7325



A)

10	30
30	40

 B)

6	26
31	36

 C)

2	6
7	8

D)

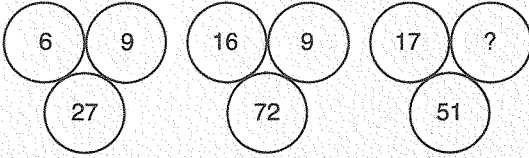
6	13
24	32

 E)

2	6
31	18

TEST - 3

7.



- A) 1 B) 2 C) 3 D) 6 E) 12

8.

x	2	4	7 ...
y	6	12	21 ...

y	2	4	7 ...
z	7	13	22 ...

$$z = 100 \Rightarrow x = ?$$

- A) 11 B) 12 C) 14 D) 16 E) 22

9.

35	5	7	-2
42	A	6	1
51	17	3	14
39	13	B	10

$$\Rightarrow A + B = ?$$

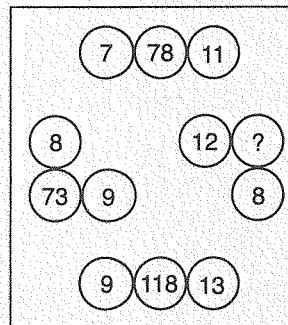
- A) 6 B) 7 C) 8 D) 9 E) 10

10.

4	16	8
4	25	10
3	27	?

- A) 8 B) 9 C) 11 D) 12 E) 13

11.



- A) 82 B) 66 C) 94 D) 96 E) 97

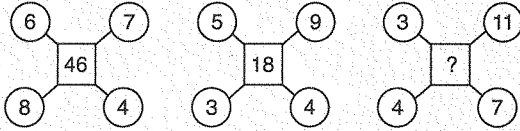
TEST - 3

12.

7	4	2	8	12
9	2	1	7	10
7	3	11	10	0
8	2	13	7	?

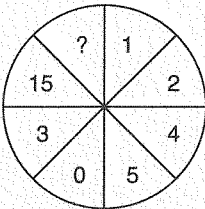
- A) -8 B) -4 C) -1 D) 4 E) 7

13.



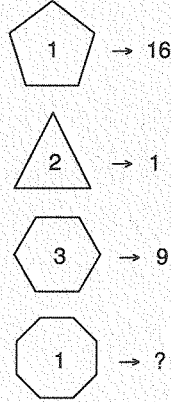
- A) 27 B) 30 C) 32 D) 34 E) 36

14.



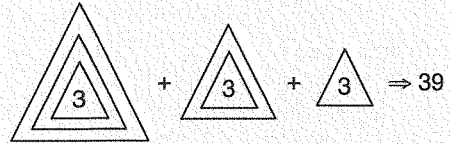
- A) 18 B) 20 C) 22 D) 24 E) 26

15.



- A) 1 B) 8 C) 25 D) 49 E) 64

16. I.



II.

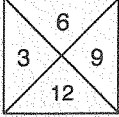


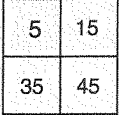
III.

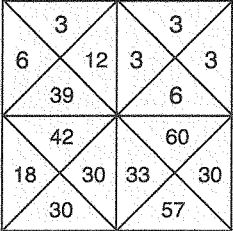


- A) 225 B) 200 C) 175 D) 155 E) 150

TEST - 3

17. I.  $\Rightarrow 10$

II.  $\Rightarrow 20$

III.  $\Rightarrow ?$

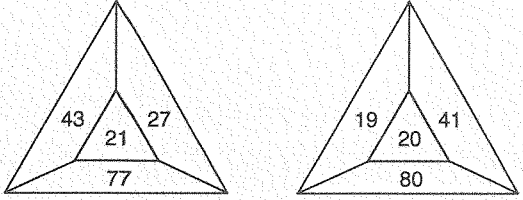
- A) 5 B) 10 C) 15 D) 20 E) 25

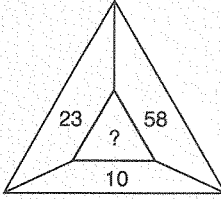
18. I.  $\Rightarrow 25$

II.  $\Rightarrow 45$

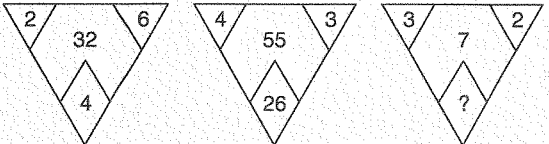
III.  $\Rightarrow ?$

- A) 19 B) 40 C) 55 D) 135 E) 155

19. 



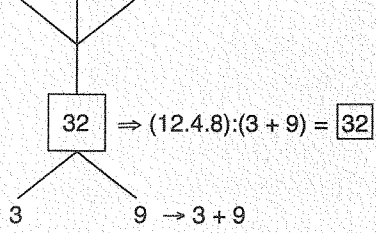
- A) 11 B) 13 C) 15 D) 17 E) 19

20. 

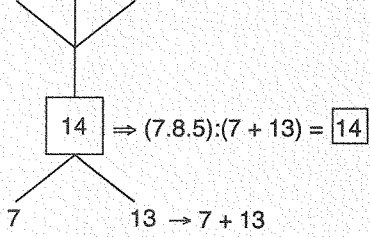
- A) 1 B) 2 C) 13 D) 16 E) 30

TEST - 3 ÇÖZÜMLER

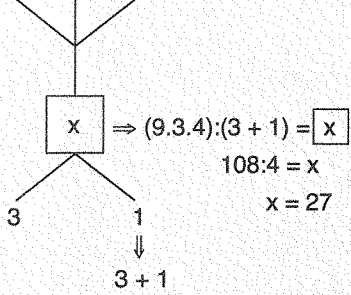
1. 12 4 8 → 12.4.8



7 8 5 → 7.8.5

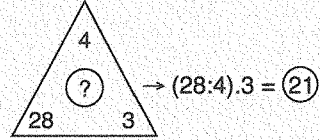
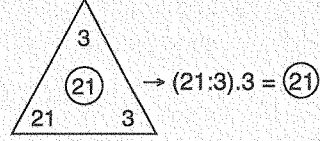
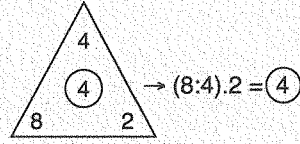


9 3 4 → 9.3.4



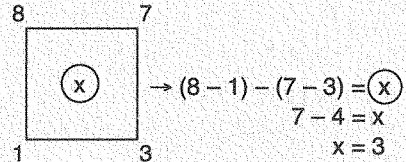
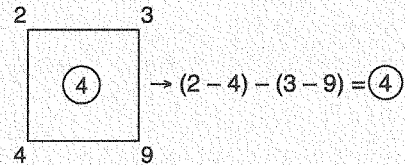
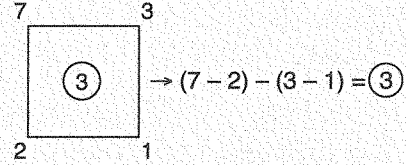
Cevap: A

2.



Cevap: E

3.



Cevap: B

TEST - 3 ÇÖZÜMLER

4.

I.	60	12
II.	36	9
III.	x	3
IV.	26	13

I. $60:5 = 12$

II. $36:4 = 9$

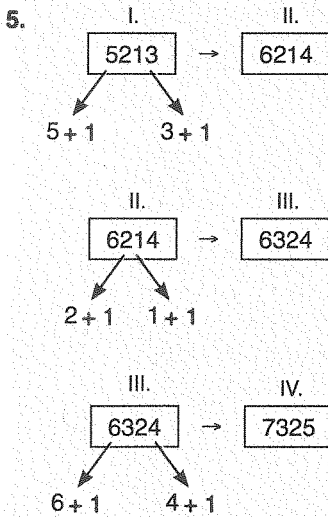
III. $x:3 = 3$

IV. $26:2 = 13$

$\Rightarrow x:3 = 3$

$x = 9$

Cevap: C

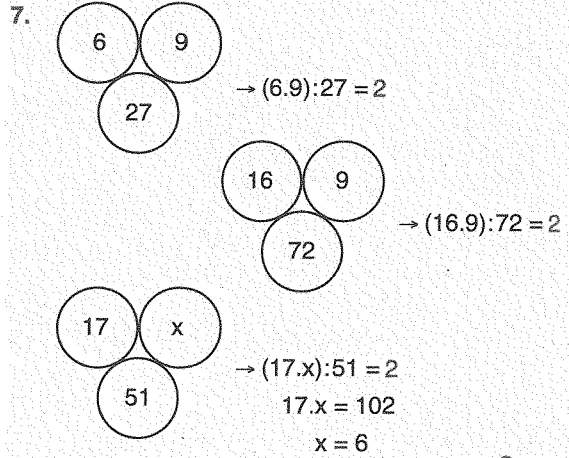


Cevap: E

6.

I.	1	3	$5.1 - 4 = 1$	$5.3 - 4 = 11$	$5.4 - 4 = 16$	$5.5 - 4 = 21$
	4	5				
II.	2	6	$5.2 - 4 = 6$	$5.6 - 4 = 26$	$5.7 - 4 = 31$	$5.8 - 4 = 36$
	7	8				

Cevap: B



Cevap: D

8.

y	2	4	7 ...
z	7	13	22 ...

$3.2 + 1 = 7$
 $3.4 + 1 = 13$
 $3.7 + 1 = 22$
 $3.33 + 1 = 100 \Rightarrow y = 33$

x	2	4	7 ...
y	6	12	21 ...

$2.3 = 6$
 $4.3 = 12$
 $7.3 = 21$
 $x.3 = y \Rightarrow 3x = 33$
 $x = 11$

Cevap: A

9.

I.	II.	III.	IV.
35	5	7	-2
42	A	6	1
51	17	3	14
39	13	B	10

$(I.):(II.) = III. , (II.) - (III.) = IV.$

$35:5 = 7 , 5 - 7 = -2$

$42:A = 6 , A - 6 = 1$

$51:17 = 3 , 17 - 3 = 14$

$39:13 = B , 13 - B = 10$

$\Rightarrow A - 6 = 1 \Rightarrow A = 7$

$13 - B = 10 \Rightarrow B = 3$

$$\begin{array}{r}
 + \\
 A + B = 10
 \end{array}$$

Cevap: E

TEST - 3 ÇÖZÜMLER

10.

4	16	8
4	25	10
3	27	x

 $\rightarrow 4.16 = 8^2$
 $\rightarrow 4.25 = 10^2$
 $\rightarrow 3.27 = x^2$
 $\Rightarrow 81 = x^2$
 $x = 9$

Cevap: B

11.

7	78	11
---	----	----

 $\rightarrow 7.11 + 1 = 78$

9	118	13
---	-----	----

 $\rightarrow 9.13 + 1 = 118$

8	73	9
---	----	---

 $\rightarrow 8.9 + 1 = 73$

12	x	8
----	---	---

 $\rightarrow 8.12 + 1 = x$
 $96 + 1 = x$
 $x = 97$

Cevap: E

12.

7	4	2	8	12
9	2	1	7	10
7	3	11	10	0
8	2	13	7	x

 $\rightarrow (7.4) - (8 + 2) = 18$
 $\rightarrow (9.2) - (1 + 7) = 10$
 $\rightarrow (7.3) - (11 + 10) = 0$
 $\rightarrow (8.2) - (13 + 7) = x$
 $16 - 20 = x$
 $x = -4$

Cevap: B

13.

6	7
8	4
46	

 $\rightarrow (7.8) - (4 + 6) = 46$

5	9
3	4
18	

 $\rightarrow (9.3) - (5 + 4) = 18$

3	11
4	7
?	

 $\rightarrow (11.4) - (3 + 7) = 34 = ?$

Cevap: D

14.

1
0

 $\rightarrow 1^2 - 1 = 0$

2
3

 $\rightarrow 2^2 - 1 = 3$

15
4

 $\rightarrow 4^2 - 1 = 15$

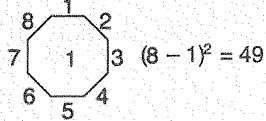
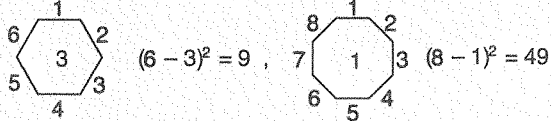
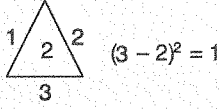
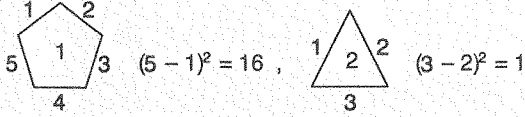
x
5

 $\rightarrow 5^2 - 1 = 24$

Cevap: D

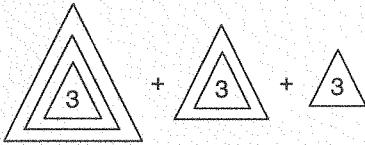
TEST - 3 ÇÖZÜMLER

15.



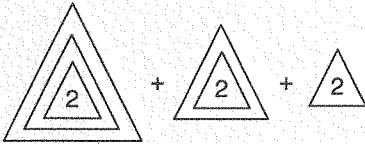
Cevap: D

16. I.



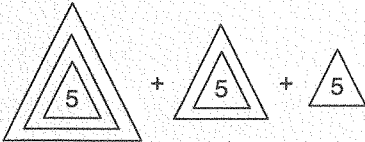
$$\rightarrow 3^3 + 3^2 + 3^1 = 39$$

II.



$$\rightarrow 2^3 + 2^2 + 2^1 = 14$$

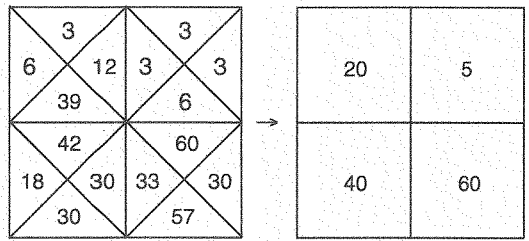
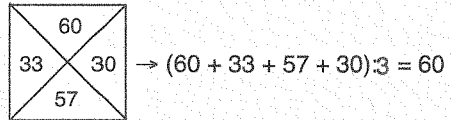
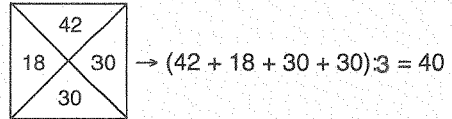
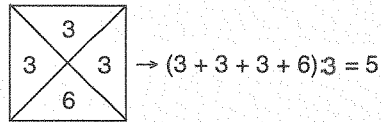
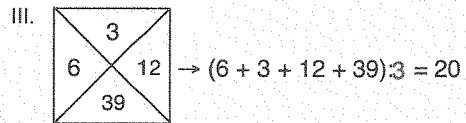
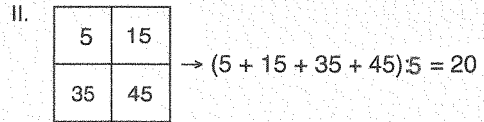
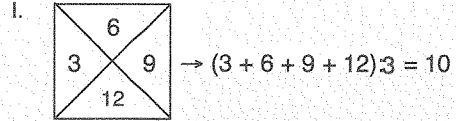
III.



$$\begin{aligned} &\rightarrow 5^3 + 5^2 + 5^1 \\ &= 125 + 25 + 5 = 155 \end{aligned}$$

Cevap: D

17.



$$(20+5+40+60):5 = 25$$

Cevap: E

TEST - 3 ÇÖZÜMLER

18. I.

3	5	11
---	---	----

 $\rightarrow 3^2 + 5 + 11 = 25$

II.

3	5	11
---	---	----

 $\rightarrow 3^2 + 5^2 + 11 = 45$

III.

3	5	11
---	---	----

 $\rightarrow 3^2 + 5 + 11^2 = 135$

Cevap: D

20.

2	32	6
4		

 $\rightarrow 6^2 - 32 = 4$

4	55	3
26		

 $\rightarrow 3^4 - 55 = 26$

3	7	2
x		

 $\rightarrow 2^3 - 7 = x$
 $8 - 7 = x$
 $x = 1$

Cevap: A

19.

43	21	27
77		

 $\downarrow$
 $(43 + 27 + 77):7 = 21$

19	20	41
80		

 $\downarrow$
 $(19 + 41 + 80):7 = 20$

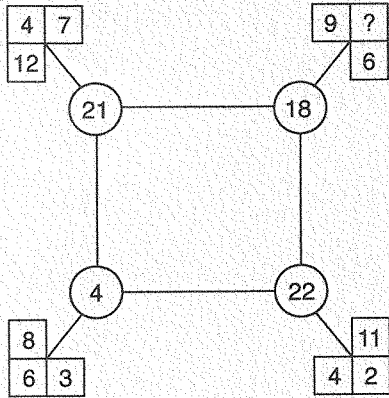
23	x	58
10		

 $\downarrow$
 $(23 + 58 + 10):7 = x$
 $\Rightarrow 91:7 = x$
 $x = 13$

Cevap: B

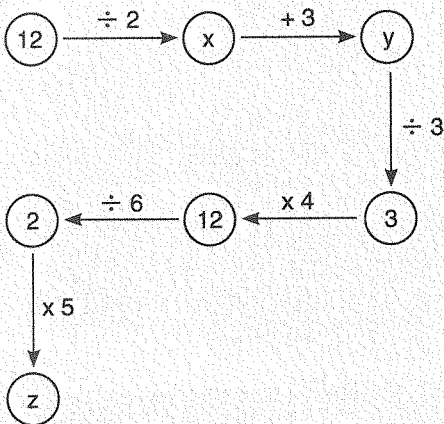
TEST - 4

1.



- A) 2 B) 3 C) 4 D) 6 E) 9

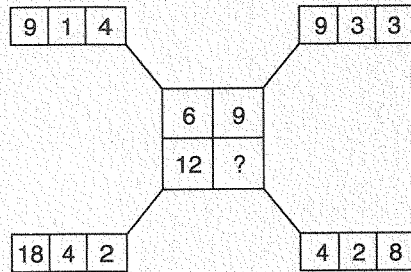
2.



$$\Rightarrow x + y + z = ?$$

- A) 20 B) 22 C) 24 D) 25 E) 30

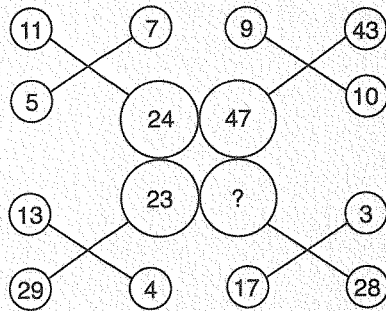
3.



- A) 2 B) 4 C) 6 D) 8 E) 16

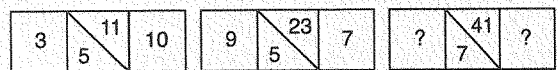
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4.



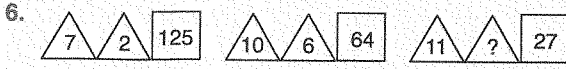
- A) 19 B) 20 C) 21 D) 23 E) 28

5.

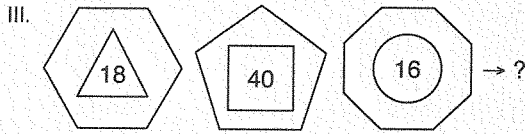
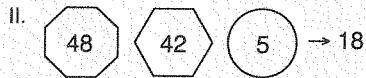
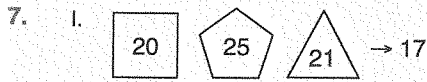


- A) 17, 12 B) 12, 17 C) 34, 17
D) 17, 17 E) 17, 34

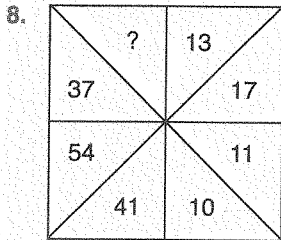
TEST - 4



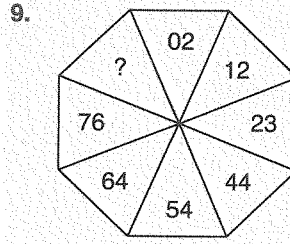
- A) 9 B) 8 C) 6 D) 4 E) 2



- A) 4 B) 5 C) 6 D) 8 E) 12

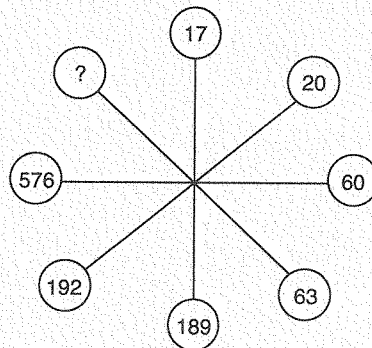


- A) 24 B) 33 C) 35 D) 42 E) 50



- A) 54 B) 62 C) 72 D) 74 E) 98

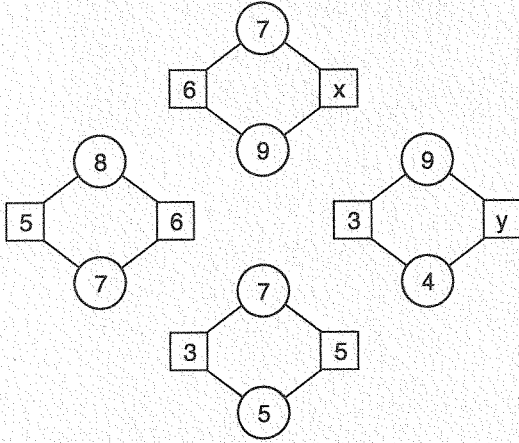
10.



- A) 471 B) 479 C) 571 D) 579 E) 1728

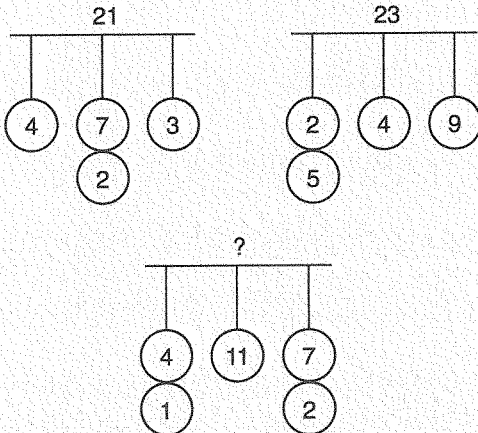
TEST - 4

11.

 $\Rightarrow x.y = ?$

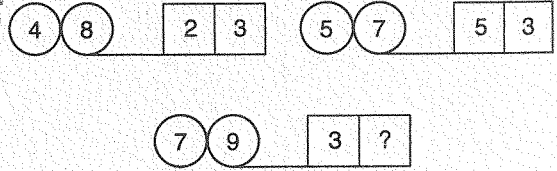
- A) 18 B) 21 C) 24 D) 27 E) 36

12.



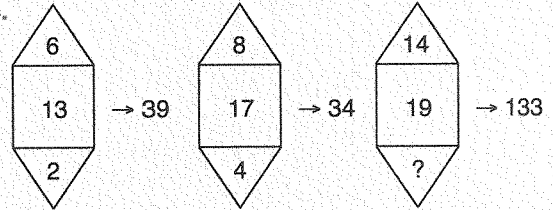
- A) 24 B) 25 C) 27 D) 29 E) 32

13.



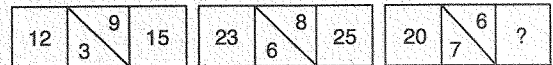
- A) 3 B) 4 C) 5 D) 6 E) 8

14.



- A) 2 B) 3 C) 4 D) 5 E) 7

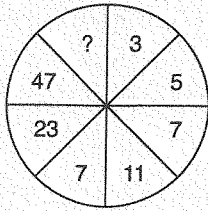
15.



- A) 17 B) 18 C) 20 D) 21 E) 22

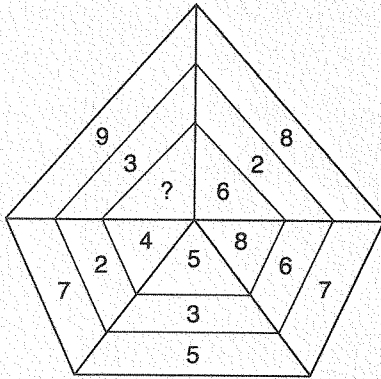
TEST - 4

19.



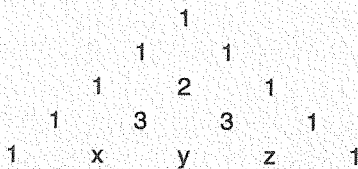
A) 113 B) 114 C) 117 D) 119 E) 121

17.



A) 9 B) 12 C) 14 D) 16 E) 18

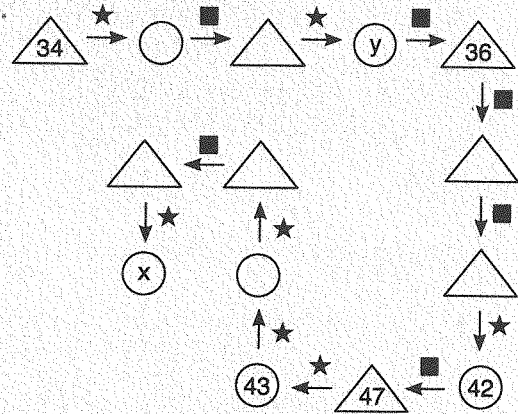
18.



$$\Rightarrow x + y + z = ?$$

A) 11 B) 12 C) 13 D) 14 E) 16

19

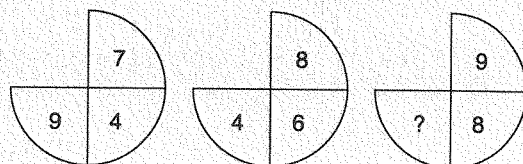


$$\Rightarrow x - y = ?$$

A) 4 B) 5 C) 6 D) 9 E) 11

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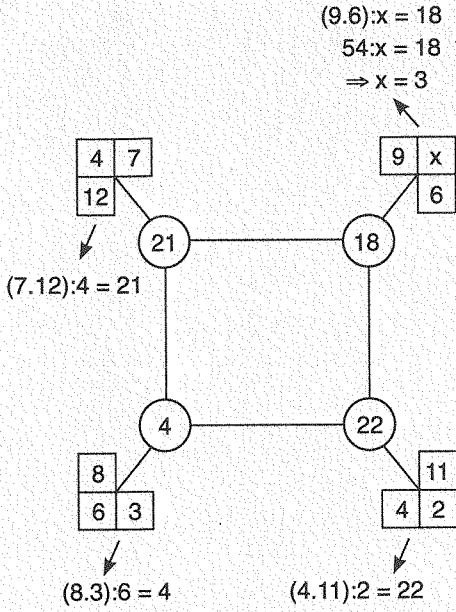
20.



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

TEST - 4 ÇÖZÜMLER

1.



Cevap: B

2.

$$12 \xrightarrow{\div 2} x \Rightarrow 12 \div 2 = x \Rightarrow x = 6$$

$$x \xrightarrow{+3} y \Rightarrow x + 3 = y \Rightarrow 6 + 3 = y, y = 9$$

$$2 \xrightarrow{\times 5} z \Rightarrow 2 \times 5 = z \Rightarrow z = 10$$

O halde;

$$x + y + z = 6 + 9 + 10 = 25$$

Cevap: D

3.

$$9 \ 1 \ 4 \Rightarrow 9.1.4 = 6^2$$

$$6$$

$$12$$

$$18 \ 4 \ 2 \Rightarrow 18.4.2 = 12^2$$

$$9 \ 3 \ 3 \Rightarrow 9.3.3 = 9^2$$

$$9$$

$$x$$

$$4 \ 2 \ 8 \Rightarrow 4.2.8 = x^2$$

$$64 = x^2$$

$$x = 8$$

Cevap: D

4.

$$11 \ 7 \ 5 \ 24$$

$$\Rightarrow (7.5) - 11 = 24$$

$$9 \ 43 \ 47 \ 10$$

$$\Rightarrow (9.10) - 43 = 47$$

$$13 \ 23 \ 29 \ 4$$

$$\Rightarrow (13.4) - 29 = 23$$

$$x \ 3 \ 17 \ 28$$

$$\Rightarrow (17.3) - 28 = x$$

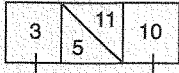
$$51 - 28 = x$$

$$x = 23$$

Cevap: D

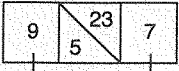
TEST - 4 ÇÖZÜMLER

5.



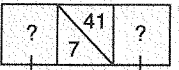
$$(11 - 5) : 2 = 3$$

$$11.5 = 55 \Rightarrow 5 + 5 = 10$$



$$(23 - 5) : 2 = 9$$

$$23.5 = 115 \Rightarrow 1 + 1 + 5 = 7$$



$$(41 - 7) : 2 = 17$$

$$7.41 = 287 \Rightarrow 2 + 8 + 7 = 17$$

6.

$$\begin{array}{|c|c|c|} \hline 7 & 2 & 125 \\ \hline \end{array} \rightarrow (7 - 2)^3 = 125$$

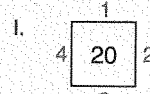
$$\begin{array}{|c|c|c|} \hline 10 & 6 & 64 \\ \hline \end{array} \rightarrow (10 - 6)^3 = 64$$

$$\begin{array}{|c|c|c|} \hline 11 & x & 27 \\ \hline \end{array} \rightarrow \begin{aligned} (11 - x)^3 &= 27 \\ (11 - x)^3 &= 3^3 \\ 11 - x &= 3 \\ x &= 8 \end{aligned}$$

Cevap: D

Cevap: B

7.



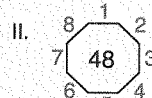
$$20 : 4 = 5$$



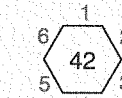
$$25 : 5 = 5$$



$$21 : 3 = 7 \Rightarrow 5 + 5 + 7 = 17$$



$$48 : 8 = 6$$

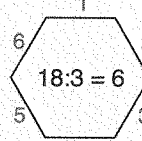
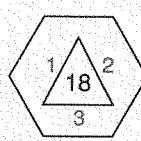


$$42 : 6 = 7$$

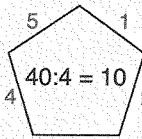
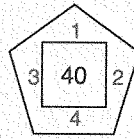


$$5 \Rightarrow 6 + 7 + 5 = 18$$

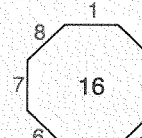
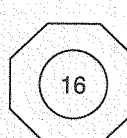
III.



$$18 : 3 = 6 \rightarrow 6 : 6 = 1$$



$$40 : 4 = 10 \rightarrow 10 : 5 = 2$$



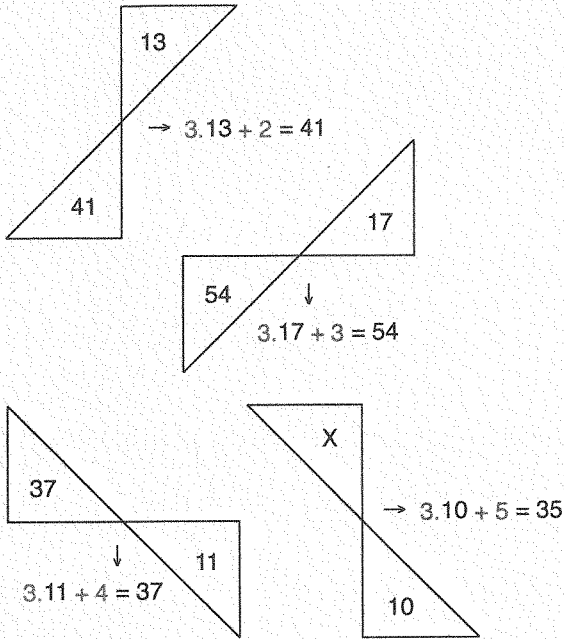
$$16 : 8 = 2$$

$$\Rightarrow 1 + 2 + 2 = 5$$

Cevap: B

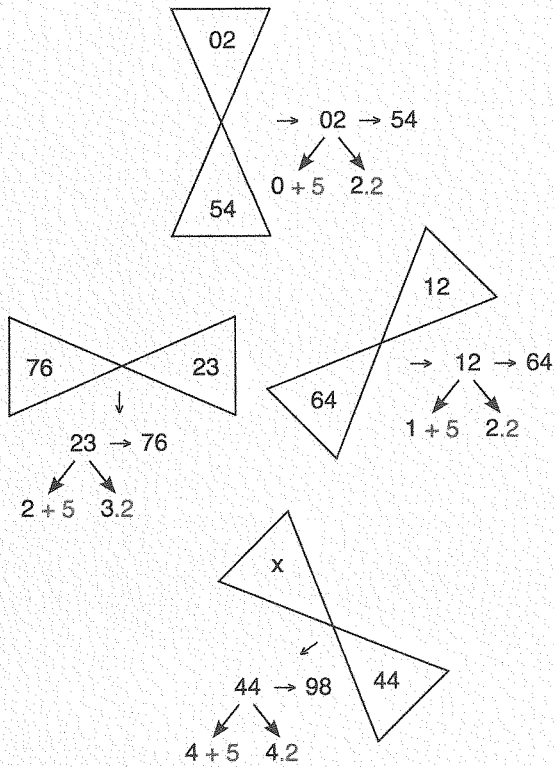
TEST - 4 ÇÖZÜMLER

8.



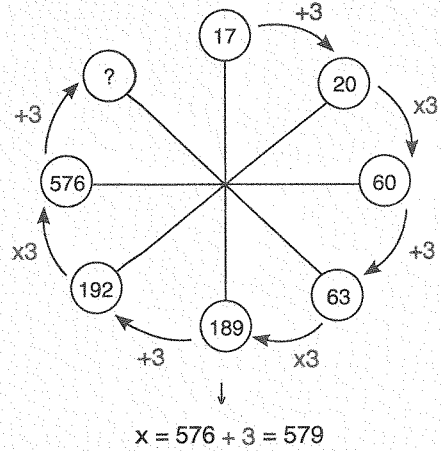
Cevap: C

9.



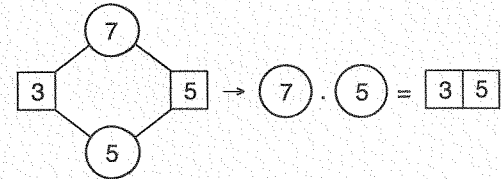
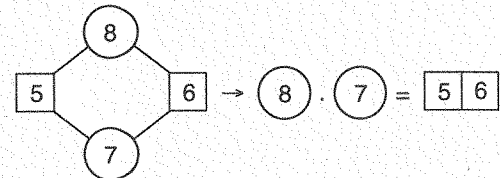
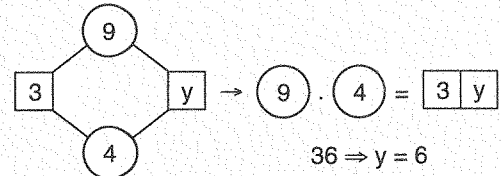
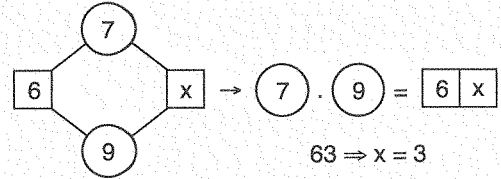
Cevap: E

10.



Cevap: D

11.

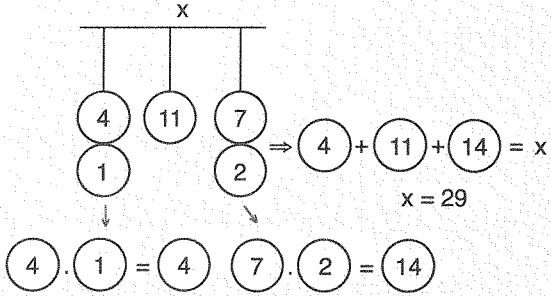
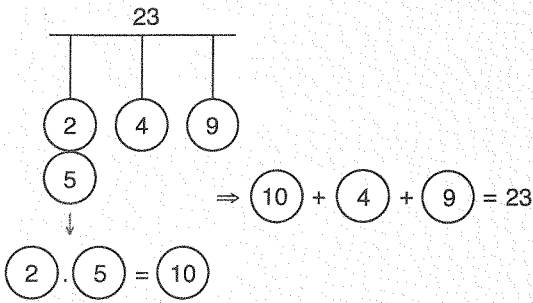
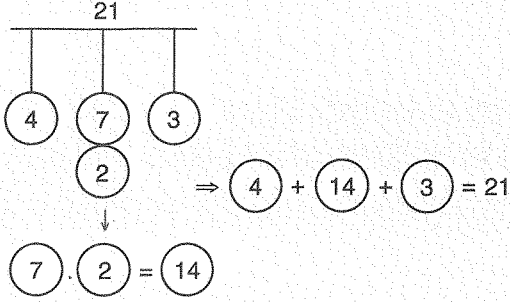


$$\Rightarrow x \cdot y = 3 \cdot 6 = 18$$

Cevap: A

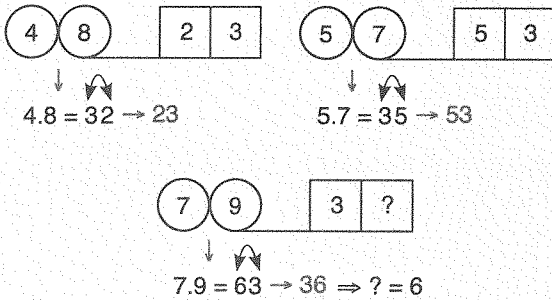
TEST - 4 ÇÖZÜMLER

12.



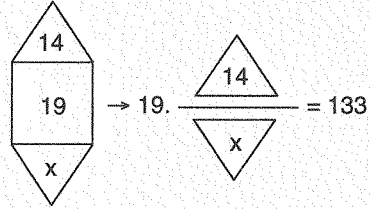
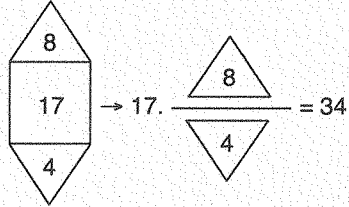
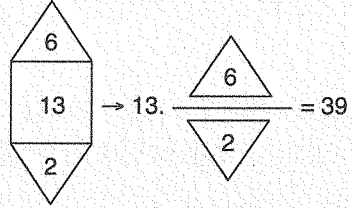
Cevap: D

13.



Cevap: D

14.

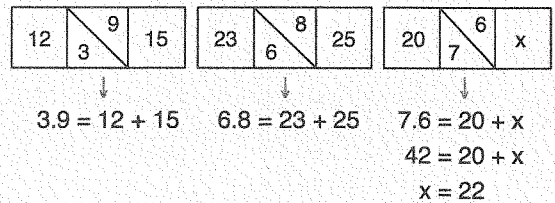


$$19 \cdot \frac{14}{x} = 133$$

$$x = 2$$

Cevap: A

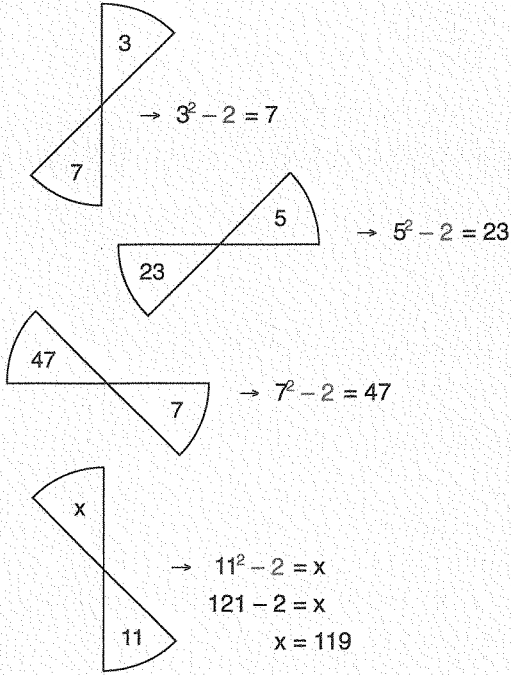
15.



Cevap: E

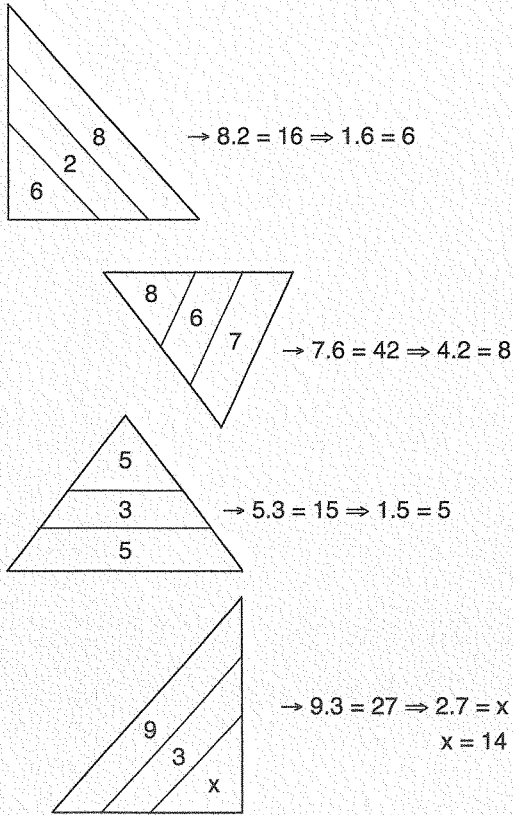
TEST - 4 ÇÖZÜMLER

16.



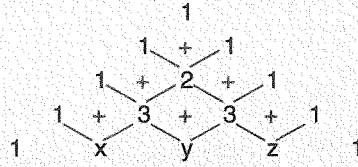
Cevap: D

17.



Cevap: C

18.



$$\Rightarrow x = 1 + 3 = 4$$

$$y = 3 + 3 = 6$$

$$z = 3 + 1 = 4$$

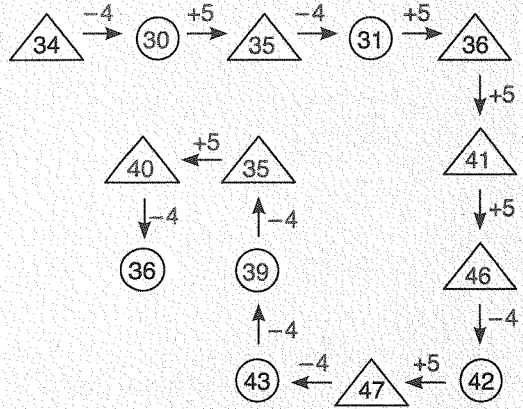
$$\Rightarrow x + y + z = 4 + 6 + 4 = 14$$

Cevap: D

19.

$$\star = -4$$

$$\blacksquare = +5$$



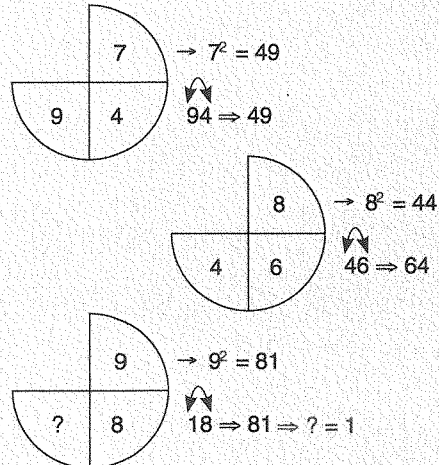
$$\Rightarrow x = 36$$

$$y = 31$$

$$\Rightarrow x - y = 36 - 31 = 5$$

Cevap: B

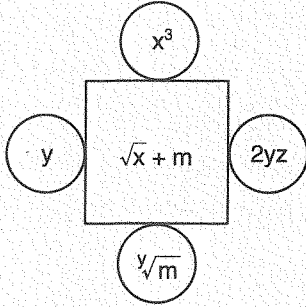
20.



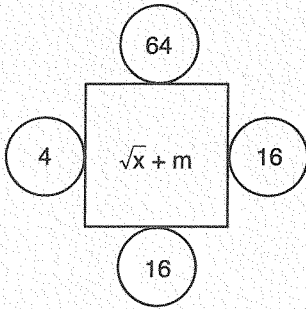
Cevap: A

DENKLEM EŞLEŞTİRME (EQUATION MATCHING)

TEST - 1



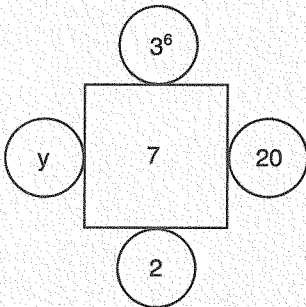
1.



$$\Rightarrow z.(\sqrt{x} + m) = ?$$

- A) 36 B) 32 C) 30 D) 24 E) 20

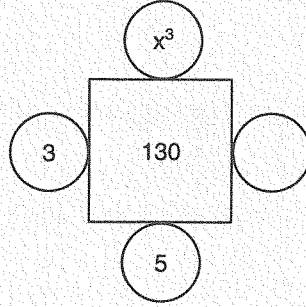
2.



$$\Rightarrow z = ?$$

- A) 2 B) 4 C) 5 D) 10 E) 20

3.

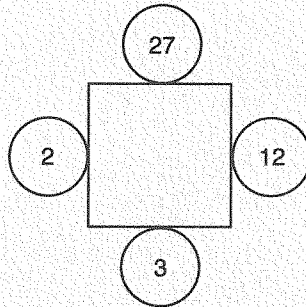


$$\Rightarrow x^3 = ?$$

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

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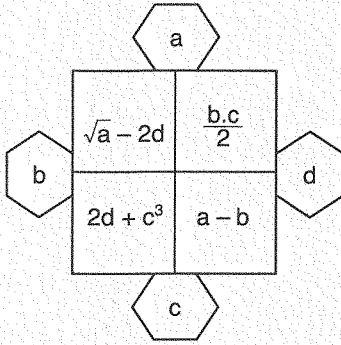
4.



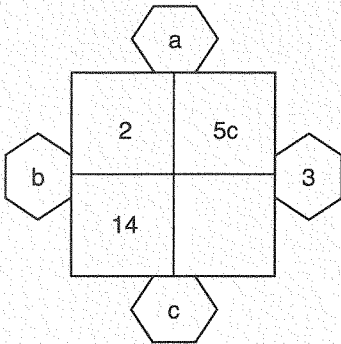
$$\Rightarrow x.y.z.m = ?$$

- A) 81 B) 124 C) 144 D) 162 E) 192

TEST - 1



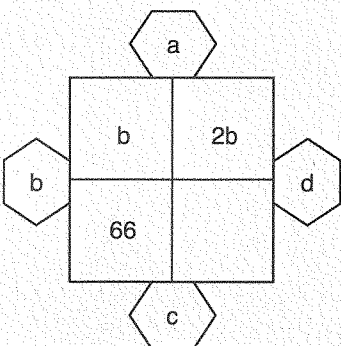
5.



$$\Rightarrow a + b + c = ?$$

- A) 72 B) 74 C) 76 D) 78 E) 80

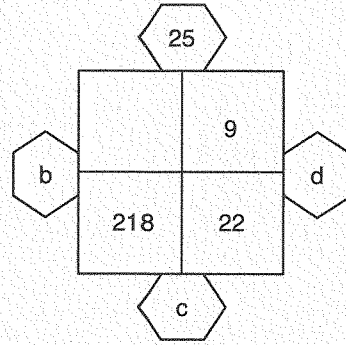
6.



$$\Rightarrow a = ?$$

- A) 62 B) 64 C) 66 D) 68 E) 81

7.

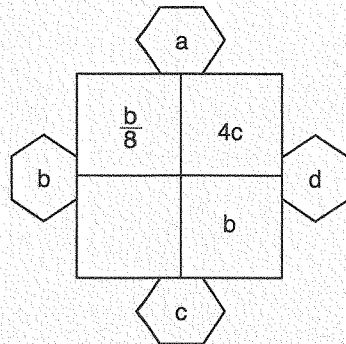


$$\Rightarrow b + c + d = ?$$

- A) 9 B) 10 C) 12 D) 13 E) 14

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8.

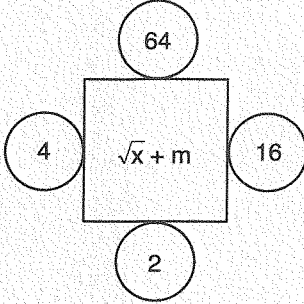


$$\Rightarrow b + c + d = ?$$

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

TEST - 1 ÇÖZÜMLER

1.



i) $x^3 = 64 \Rightarrow x = 4$

ii) $2.y.z = 16 \Rightarrow 8z = 16 \Rightarrow z = 2$

↓
4

iii) $\sqrt[4]{m} = 2$

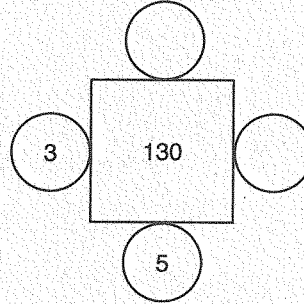
$4\sqrt{m} = 2 \Rightarrow m = 2^4$

$m = 16$

$\Rightarrow z.(\sqrt{x} + m) = 2.(\sqrt{4} + 16) = 2.18 = 36$

Cevap: A

3.



i) $\sqrt[5]{m} = 5$

$3\sqrt{m} = 5 \Rightarrow m = 125$

iii) $\sqrt{x} + m = 130$

$\sqrt{x} + 125 = 130$

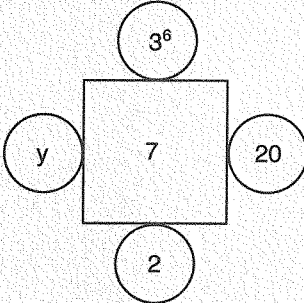
$\sqrt{x} = 5$

$x = 25$

$\Rightarrow x^3 = 25^3 = 5^6$

Cevap: D

2.



i) $x^3 = 3^6 = 9^3 \Rightarrow x = 9$

ii) $\sqrt{x} + m = 7$

$\sqrt{9} + m = 7$

$3 + m = 7 \Rightarrow m = 4$

iii) $\sqrt[4]{m} = 2$

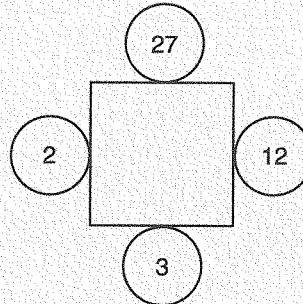
$\sqrt[4]{4} = 2 \Rightarrow y = 2$

iv) $2.y.z = 20$

$2.2.z = 20 \Rightarrow \boxed{z = 5}$

Cevap: C

4.



$\Rightarrow x^3 = 27 \Rightarrow \boxed{x = 3}$

$\Rightarrow 2yz = 12 \Rightarrow 4z = 12$

↓
2

$\boxed{z = 3}$

$\Rightarrow \sqrt[3]{m} = 3$

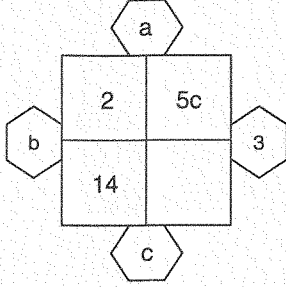
$\sqrt{m} = 3 \Rightarrow m = 9$

$\Rightarrow x.y.z.m = 3.2.3.9 = 162$

Cevap: D

TEST - 1 ÇÖZÜMLER

5.



i) $2d + c^3 = 14$

$$\downarrow$$

3

$$6 + c^3 = 14 \Rightarrow c^3 = 8 \Rightarrow c = 2$$

ii) $\sqrt{a} - 2d$

$$\downarrow$$

3

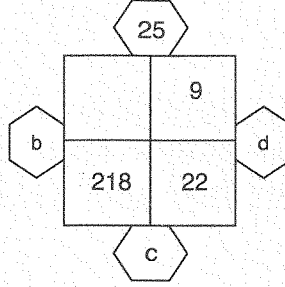
$$\sqrt{a} - 6 = 2$$

$$\sqrt{a} = 8 \Rightarrow a = 64$$

iii) $\frac{b \cdot c}{2} = 5 \cdot c \Rightarrow b = 10$

$$\Rightarrow a + b + c = 64 + 10 + 2 = 76$$

7.



i) $a - b = 22$

$$25 - b = 22$$

$$b = 3$$

ii) $\frac{b \cdot c}{2} = 9$

$$\frac{3 \cdot c}{2} = 9 \Rightarrow 3c = 18$$

$$c = 6$$

iii) $2d + c^3 = 218$

$$2d + 6^3 = 218$$

$$2d + 216 = 218$$

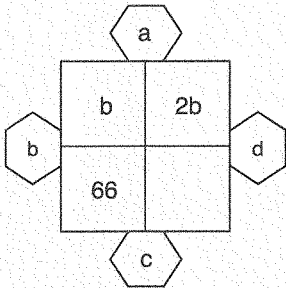
$$2d = 2 \Rightarrow d = 1$$

$$\Rightarrow b + c + d = 3 + 6 + 1 = 10$$

Cevap: C

Cevap: B

6.



i) $\frac{b \cdot c}{2} = 2 \cdot c \Rightarrow c = 4$

ii) $2d + c^3 = 66$

$$2d + 4^3 = 66 \Rightarrow 2d = 2 \Rightarrow d = 1$$

iii) $\sqrt{a} - 2d = 6$

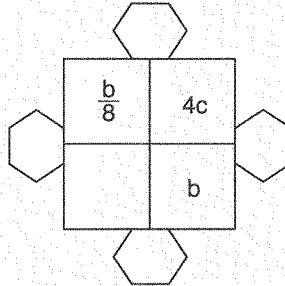
$$\sqrt{a} - 2 = 6$$

$$\sqrt{a} = 8$$

$$a = 64$$

Cevap: B

8.



i) $\frac{b \cdot c}{2} = 4 \cdot c \Rightarrow b = 8$

ii) $a - b = b$

$$a = 2b \Rightarrow a = 16$$

$$\downarrow$$

8

iii) $\sqrt{a} - 2d = \frac{b}{8}$

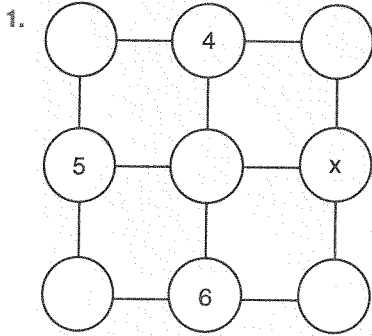
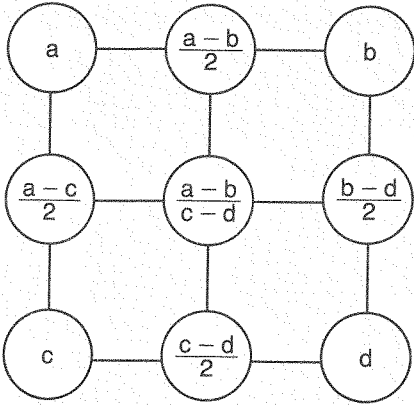
$$\sqrt{16} - 2d = \frac{8}{8}$$

$$4 - 2d = 1$$

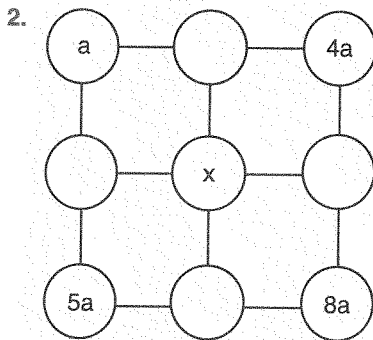
$$3 = 2d \Rightarrow d = \frac{3}{2}$$

Cevap: B

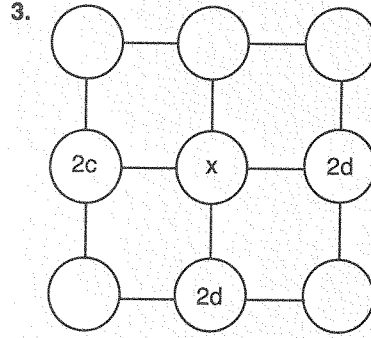
TEST - 2

 $\Rightarrow x = ?$

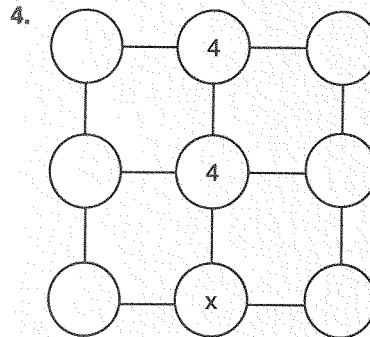
- A) 7 B) 8 C) 9 D) 12 E) 14

 $\Rightarrow x = ?$

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

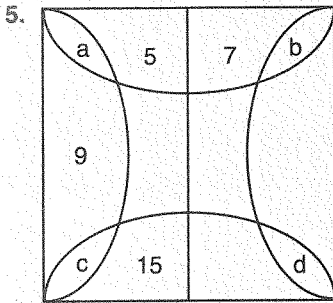
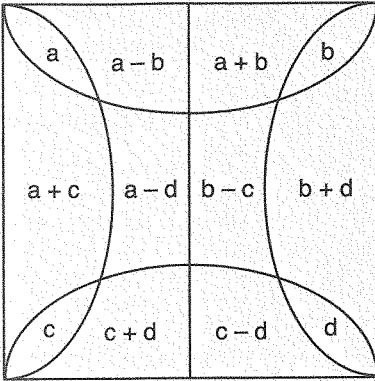
 $\Rightarrow x = ?$

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

 $\Rightarrow x = ?$

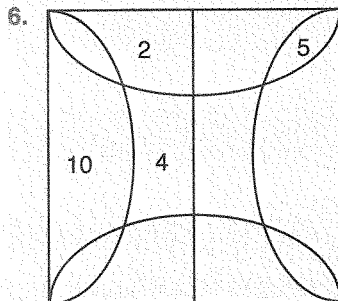
- A) 1 B) 2 C) 3 D) 4 E) 5

TEST - 2



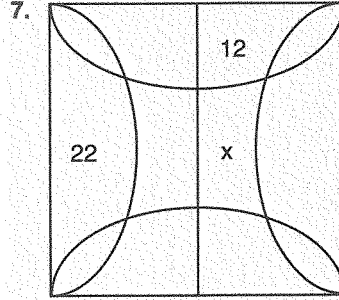
$$\Rightarrow d = ?$$

- A) 6 B) 8 C) 9 D) 10 E) 12



$$\Rightarrow 4c - d = ?$$

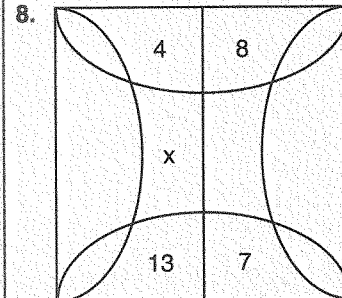
- A) 4 B) 6 C) 8 D) 9 E) 10



$$\Rightarrow x = ?$$

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

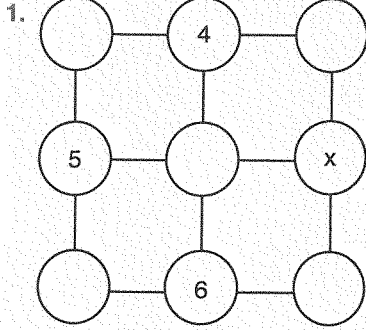
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$$\Rightarrow x = ?$$

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

TEST - 2 ÇÖZÜMLER



$$i) \frac{a-b}{2} = 4 \Rightarrow a-b=8$$

$$ii) \frac{a-c}{2} = 5 \Rightarrow a-c=10$$

$$iii) \frac{c-d}{2} = 6 \Rightarrow c-d=12$$

$$- / a-b=8$$

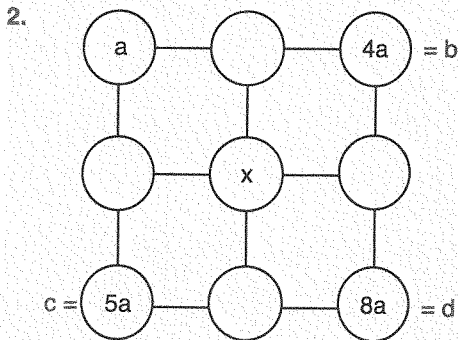
$$a-c=10$$

$$c-d=12$$

$$+$$

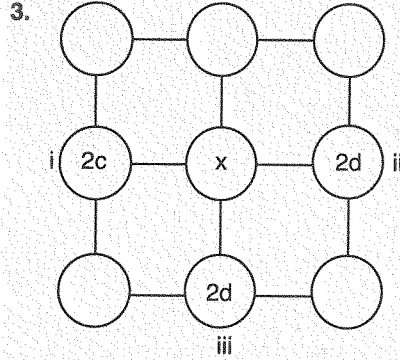
$$b-d=14$$

$$\Rightarrow x = \frac{b-d}{2} = \frac{14}{2} = 7$$



$$x = \frac{a-b}{c-a} = \frac{a-4a}{5a-8a} = \frac{-3a}{-3a} = 1$$

Cevap: C



$$i) \frac{a-c}{2} = 2c \Rightarrow a-c=4c$$

$$a=5c$$

$$ii) \frac{b-d}{2} = 2d \Rightarrow b-d=4d$$

$$b=5d$$

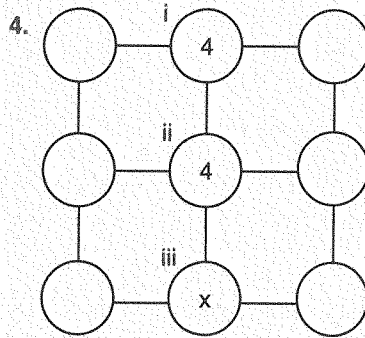
$$iii) \frac{c-d}{2} = 2d \Rightarrow c-d=4d$$

$$c=5d$$

$$\Rightarrow a=5c=5.5d=25d$$

$$x = \frac{a-b}{c-d} = \frac{25d-5d}{5d-d} = \frac{20d}{4d} = 5$$

Cevap: A



$$i) \frac{a-b}{2} = 4 \Rightarrow a-b=8$$

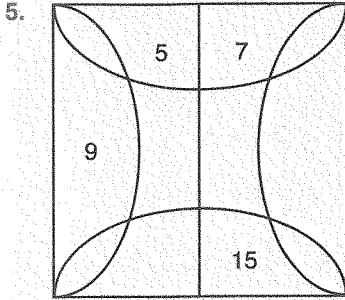
$$ii) \frac{a-b}{c-d} = 4 \Rightarrow \frac{8}{c-d} = 4$$

$$c-d=2$$

$$iii) x = \frac{c-d}{2} = \frac{2}{2} = 1$$

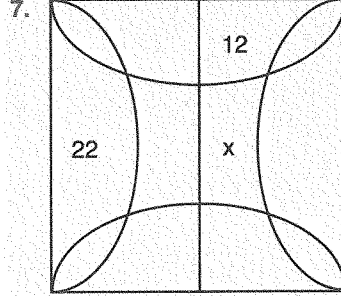
Cevap: A

TEST - 2 ÇÖZÜMLER



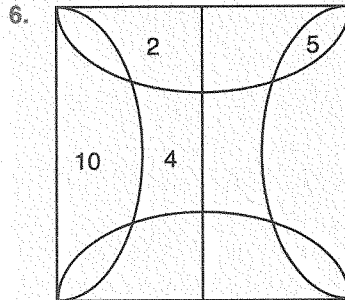
$$\begin{aligned} \Rightarrow \text{i) } a - b &= 5 & \text{ii) } a + c &= 9 & \text{iii) } c + d &= 15 \\ &+ a + b = 7 & 6 + c &= 9 & 3 + d &= 15 \\ &\hline &2a &= 12 & c &= 3 & d &= 12 \\ &a &= 6 & & & & \end{aligned}$$

Cevap: E



$$\begin{aligned} \text{i) } a + b &= 12 \\ \text{ii) } a + c &= 22 \\ x &= b - c = -10 \end{aligned}$$

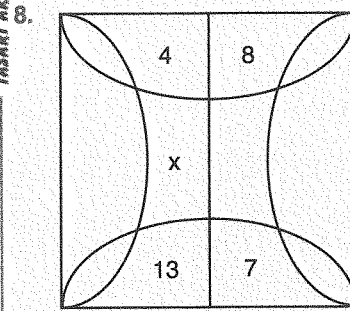
Cevap: C



$$\begin{aligned} \text{i) } a - b &= 2 & \text{ii) } a + c &= 10 & \text{iii) } a - d &= 4 \\ a - 5 &= 2 & 7 + c &= 10 & 7 - d &= 4 \\ a &= 7 & c &= 3 & d &= 3 \end{aligned}$$

$$\Rightarrow 4c - d = 4 \cdot 3 - 3 = 9$$

Cevap: D



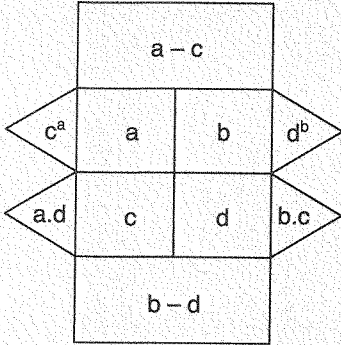
$$\begin{aligned} \text{i) } a - b &= 4 \\ &+ a + b = 8 \\ &\hline 2a &= 12 \Rightarrow a = 6 \end{aligned}$$

$$\begin{aligned} \text{ii) } c + d &= 13 \\ c - d &= 7 \\ \hline 2d &= 6 \Rightarrow d = 3 \end{aligned}$$

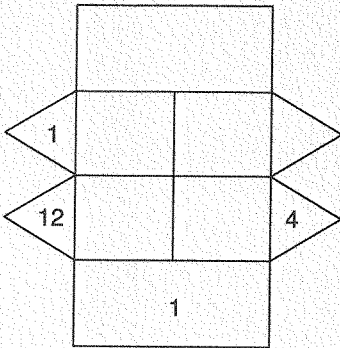
$$\text{iii) } x = a - d = 6 - 3 = 3$$

Cevap: B

TEST - 3

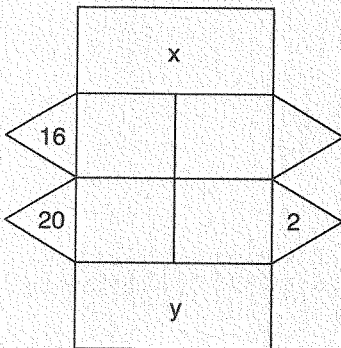
 $a, b, c, d \in \mathbb{Z}^+$


1.


 $\Rightarrow a = ?$

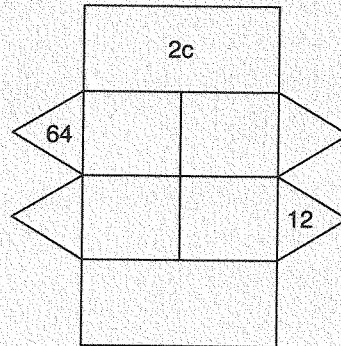
- A) 1 B) 2 C) 3 D) 4 E) 12

2.


 $\Rightarrow x - y = ?$

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

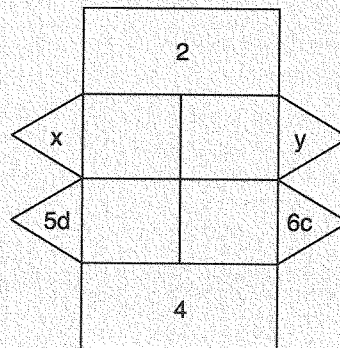
3.


 $\Rightarrow b = ?$

- A) 1 B) 2 C) 3 D) 4 E) 6

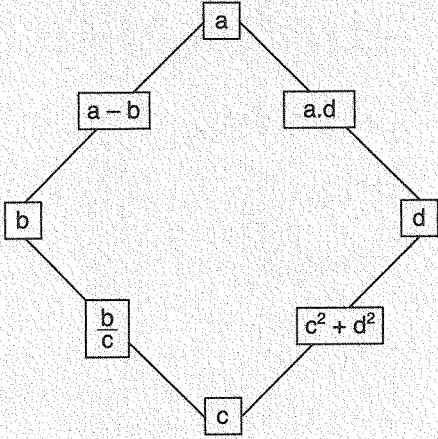
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4.

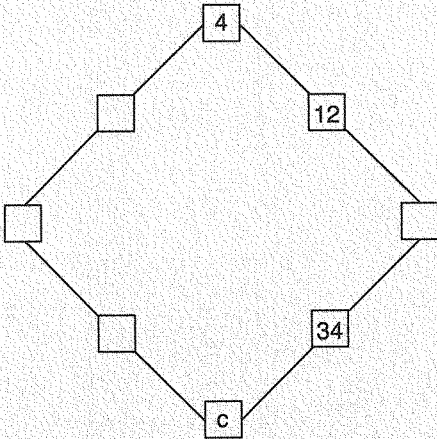

 $\Rightarrow x + y = ?$

- A) 220 B) 243 C) 259 D) 275 E) 307

TEST - 3

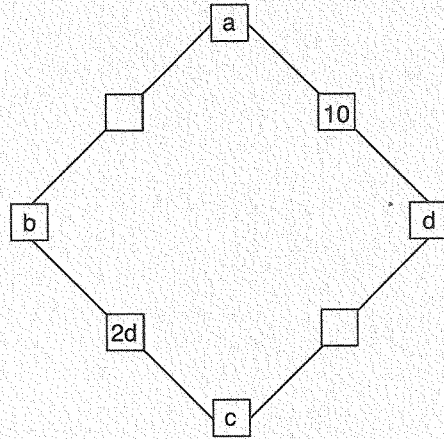
 $a, b, c, d \in \mathbb{Z}^+$


5.


 $\Rightarrow c = ?$

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

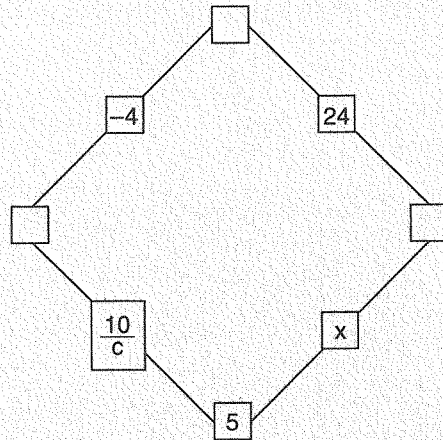
6.


 $\Rightarrow \frac{a.b}{c} = ?$

- A) 5 B) 10 C) 15 D) 20 E) 25

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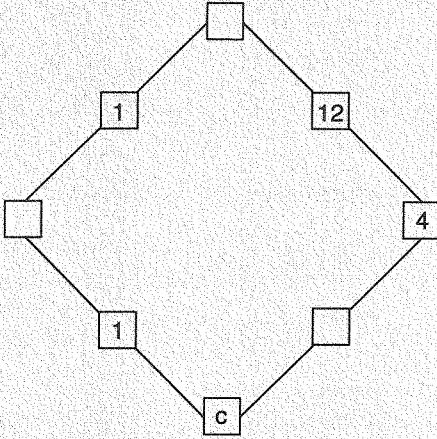
7.


 $\Rightarrow x = ?$

- A) 29 B) 41 C) 50 D) 71 E) 76

TEST - 3

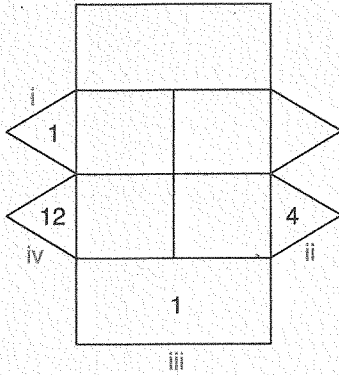
8.

 $\Rightarrow c = ?$

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

TEST - 3 ÇÖZÜMLER

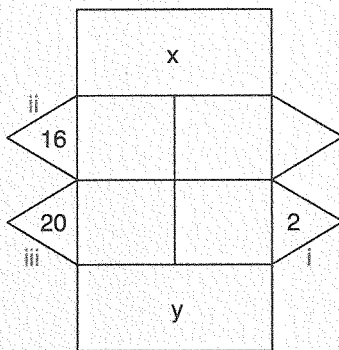
1.



- i) $c^a = 1 \Rightarrow c = 1$
 ii) $b \cdot c = 4 \Rightarrow b = 4$
 iii) $b - d = 1 \Rightarrow 4 - d = 1$
 $d = 3$
 iv) $a \cdot d = 12$
 $a \cdot 3 = 12$
 $a = 4$

Cevap: D

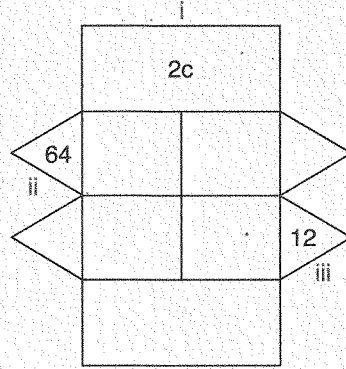
2.



- i) $b \cdot c = 2$
 $\downarrow \downarrow$
 12
 ii) $c^a = 2^a = 16$
 $2^a = 2^4 \Rightarrow a = 4$
 iii) $a \cdot d = 20 \Rightarrow 4d = 20$
 $d = 5$
 $x = a - c = 4 - 2 = 2$
 $y = b - d = 1 - 5 = -4$
 $\Rightarrow x - y = 2 - (-4) = 6$

Cevap: D

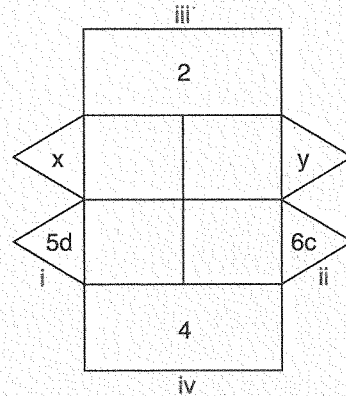
3.



- i) $a - c = 2 \cdot c \Rightarrow a = 3c$
 ii) $c^a = 64$
 $c^{3c} = 2^{3 \cdot 2} \Rightarrow c = 2$
 iii) $b \cdot c = 12$
 $b \cdot 2 = 12$
 $b = 6$

Cevap: E

4.

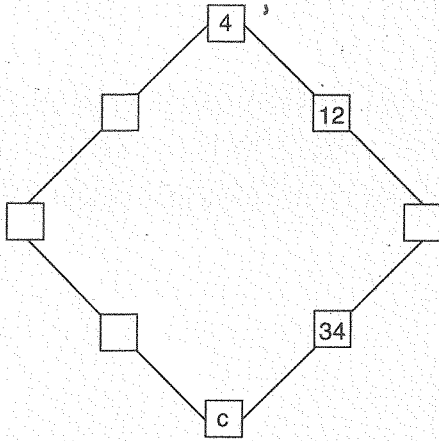


- i) $a \cdot d = 5d \Rightarrow a = 5$
 ii) $b \cdot c = 6c \Rightarrow b = 6$
 iii) $a - c = 2$
 $5 - c = 2$
 $c = 3$
 iv) $b - d = 4$
 $6 - d = 4$
 $d = 2$
 $\Rightarrow x = c^a = 3^5 = 243$
 $y = d^b = 2^6 = 64$
 O halde $x + y = 243 + 64 = 307$

Cevap: E

TEST - 3 ÇÖZÜMLER

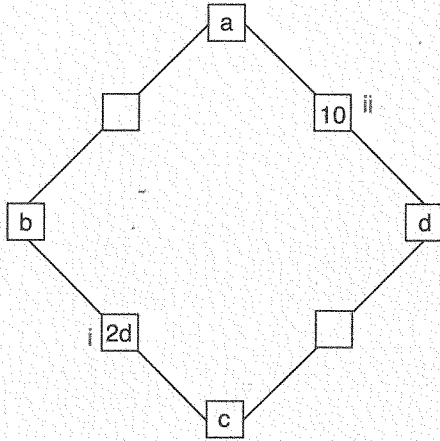
5.



- i) $a.d = 12$
 $4.d = 12$
 $d = 3$
 ii) $d^2 + c^2 = 34$
 $3^2 + c^2 = 34$
 $c^2 = 25$
 $c = 5$

Cevap: D

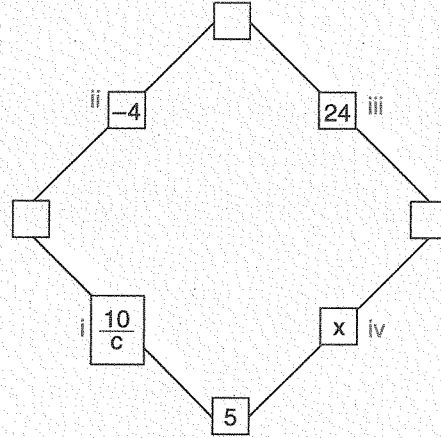
6.



- i) $\frac{b}{c} = 2d \Rightarrow d = \frac{b}{2c}$
 ii) $a.d = 10$
 $a \cdot \frac{b}{2c} = 10$
 $\frac{a.b}{c} = 20$

Cevap: D

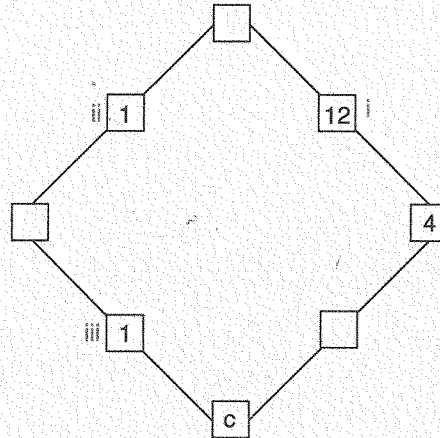
7.



- i) $\frac{b}{c} = \frac{10}{c} \Rightarrow b = 10$
 ii) $a - b = -4$
 $a - 10 = -4$
 $a = 6$
 iii) $a.d = 24$
 $6.d = 24$
 $d = 4$
 iv) $c^2 + d^2 = 5^2 + 4^2 = 41$

Cevap: B

8.



- i) $a.d = 12$
 $a.4 = 12 \Rightarrow a = 3$
 ii) $a - b = 1$
 $3 - b = 1 \Rightarrow b = 2$
 iii) $\frac{b}{c} = 1$
 $\frac{2}{c} = 1 \Rightarrow c = 2$

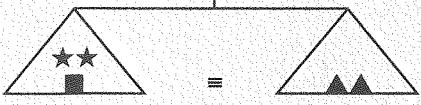
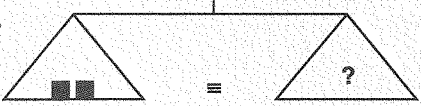
Cevap: B

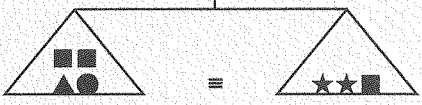
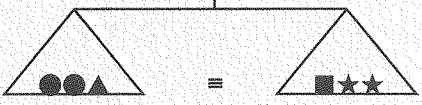


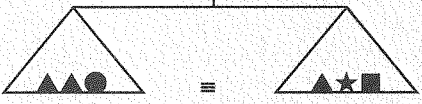
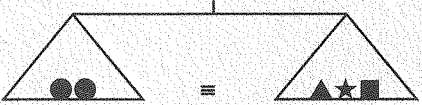
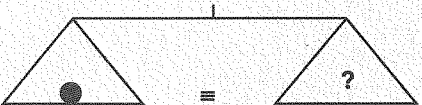
TERAZI

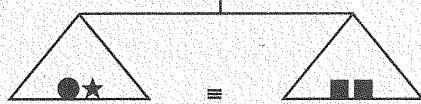
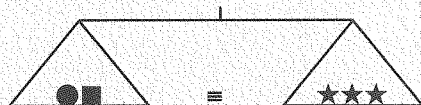
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TEST - 1

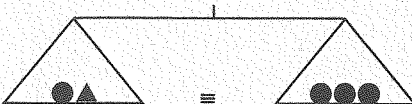
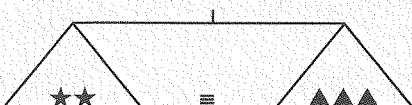
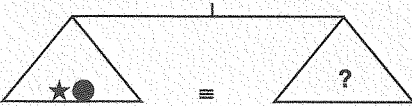
1. I.  =
- II.  =
- III.  =
- A) ★▲ B) ★★ C) ▲▲▲ D) ▲ E) ★

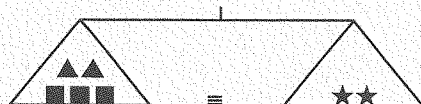
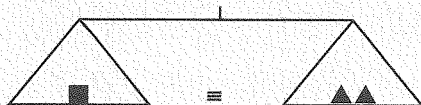
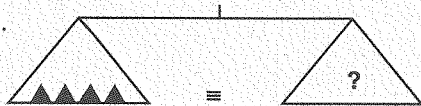
3. I.  =
- II.  =
- III.  =
- A) ●● B) ● C) ★● D) ▲▲ E) ★▲

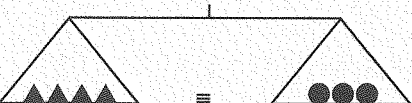
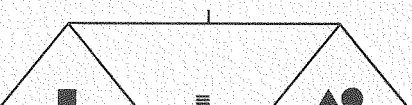
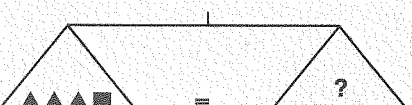
2. I.  =
- II.  =
- III.  =
- A) ▲▲ B) ■ C) ▲ D) ■■ E) ★■

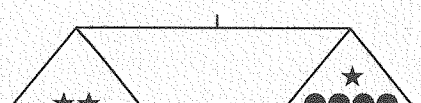
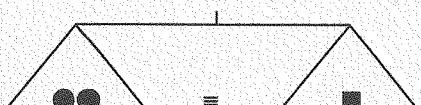
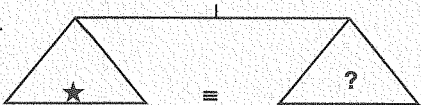
4. I.  =
- II.  =
- III.  =
- A) ■★★ B) ■■ C) ■■■★
D) ★★★★★ E) ■■

TEST - 1

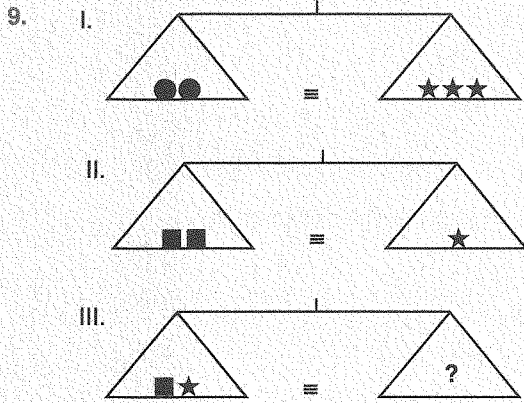
5. I.  $\equiv$
- II.  $\equiv$
- III.  $\equiv$
- A) ●●▲ B) ▲▲ C) ●▲▲
D) ▲▲▲ E) ▲▲▲▲

7. I.  $\equiv$
- II.  $\equiv$
- III.  $\equiv$
- A) ★★★★★ B) ★★★★★ C) ★★★★★
D) ★★ E) ★

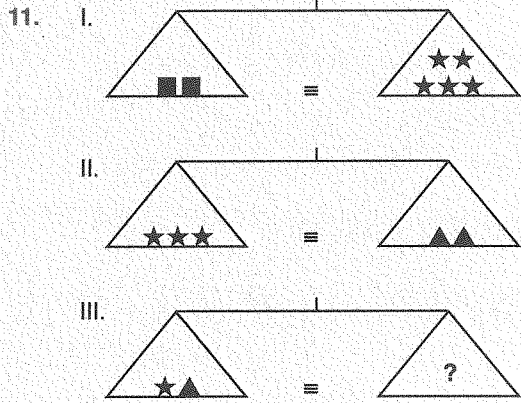
6. I.  $\equiv$
- II.  $\equiv$
- III.  $\equiv$
- A) ▲▲●● B) ▲▲● C) ●●●●
D) ●●● E) ●●

8. I.  $\equiv$
- II.  $\equiv$
- III.  $\equiv$
- A) ● B) ●● C) ●■ D) ■■ E) ■■●

TEST - 1

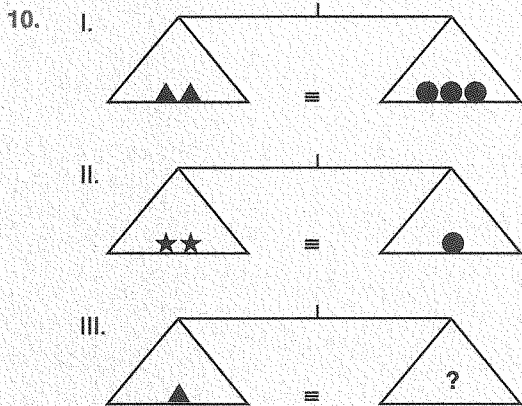


- A) ● B) ●● C) ★● D) ★■ E) ★★●

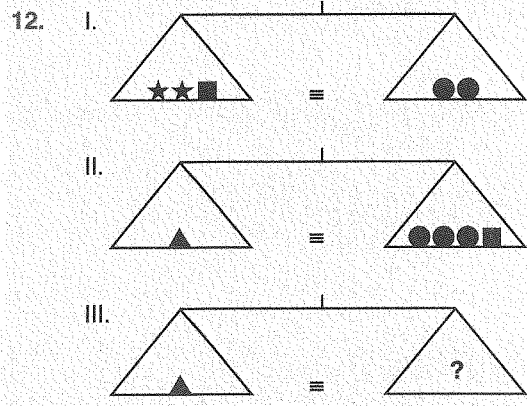


- A) ■ B) ■■ C) ★■ D) ▲■ E) ■■■■

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- A) ●★★ B) ●★ C) ●●
D) ★★★ E) ★★★★★



- A) ★■■ B) ●●■ C) ★★
D) ★★● E) ★★ ■■●

TEST - 1 ÇÖZÜMLER

1. I. $2\star + \blacksquare = 2\blacktriangle$
 II. $\blacksquare + 3\blacktriangle = \blacktriangle + 3\star$

$$\begin{array}{r} + \\ 2\blacksquare + 3\blacktriangle + 2\star = 3\blacktriangle + 3\star \\ 2\blacksquare = 3\star - 2\star = \star \end{array}$$

Cevap: E

2. II. $2\bullet = \blacktriangle + \star + \blacksquare$
 I. $2\blacktriangle + \bullet = \blacktriangle + \star + \blacksquare$

$$\begin{array}{r} - \\ 2\bullet - 2\blacktriangle - \bullet = 0 \\ \bullet = 2\blacktriangle \end{array}$$

Cevap: A

3. II. $2\bullet + \blacktriangle = \blacksquare + 2\star$
 I. $2\blacksquare + \blacktriangle + \bullet = 2\star + \blacksquare$

$$\begin{array}{r} - \\ \bullet - 2\blacksquare = 0 \\ 2\blacksquare = \bullet \end{array}$$

Cevap: B

4. I. $\bullet + \star = 2\blacksquare$
 II. $2/\bullet + \blacksquare = 3\star$

$$\begin{array}{r} + \\ 3\bullet + 2\blacksquare + \star = 2\blacksquare + 6\star \\ 3\bullet = 5\star \end{array}$$

Cevap: D

5. I. $\bullet + \blacktriangle = 3\bullet$

$$\begin{array}{r} \boxed{\blacktriangle = 2\bullet} \end{array}$$

 II. $2\star = 3\blacktriangle$

$$\begin{array}{r} \downarrow \\ 2\star = 6\bullet \\ \boxed{\star = 3\bullet} \end{array}$$

 III. $\star + \bullet = 4\bullet = 2 \cdot (2\bullet) = 2\blacktriangle$

$$\begin{array}{r} \downarrow \\ 3\bullet \end{array}$$

Cevap: B

6. I. $4\blacktriangle = 3\bullet$
 II. $\blacksquare = \blacktriangle + \bullet$

$$\begin{array}{r} + \\ 4\blacktriangle + \blacksquare = 4\bullet + \blacktriangle \\ 3\blacktriangle + \blacksquare = 4\bullet \end{array}$$

Cevap: C

7. II. $\blacksquare = 2\blacktriangle$
 I. $2\blacktriangle + 3\blacksquare = 2\star$

$$\begin{array}{r} \downarrow \\ 2\blacktriangle + 6\blacktriangle = 2\star \\ 8\blacktriangle = 2\star \\ 4\blacktriangle = \star \end{array}$$

Cevap: E

TEST - 1 ÇÖZÜMLER

8. I. $2\star = \star + 4\bullet$

$\star = 4\bullet$

$\star = 2.(2\bullet)$

$$\begin{array}{c} \star = 2.(2\bullet) \\ \downarrow \\ \star = 2.\blacksquare \end{array}$$

II. $2\bullet = \blacksquare$

Cevap: D

11. I. $2\blacksquare = 5\star$

II. $3\star = 2\blacktriangle$

+

$2\blacksquare + 3\star = 5\star + 2\blacktriangle$

$2\blacksquare = 2\star + 2\blacktriangle$

$\blacksquare = \star + \blacktriangle$

Cevap: A

9. I. $2\bullet = 3\star$

II. $\star = 2\blacksquare$

+

$2\bullet + \star = 3\star + 2\blacksquare$

$2\bullet = 2\star + 2\blacksquare$

$\bullet = \star + \blacksquare$

Cevap: A

12. II. $2\bullet = 2\star + \blacksquare$

I. $\blacktriangle = 3\bullet + \blacksquare$

$\blacktriangle = 2\bullet + \bullet + \blacksquare$

$$\begin{array}{c} \blacktriangle = 2\bullet + \bullet + \blacksquare \\ \downarrow \\ 2\star + \blacksquare \end{array}$$

$\blacktriangle = 2\star + 2\blacksquare + \bullet$

Cevap: E

10. I. $2\blacktriangle = 3\bullet$

$$\begin{array}{c} 2\blacktriangle = 3\bullet \\ \downarrow \\ 2\star \end{array}$$

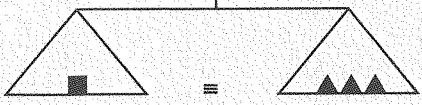
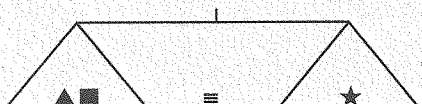
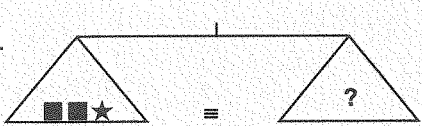
$2\blacktriangle = 6\star$

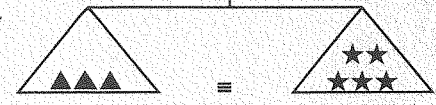
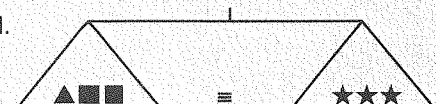
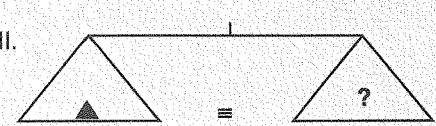
$\blacktriangle = 3\star$

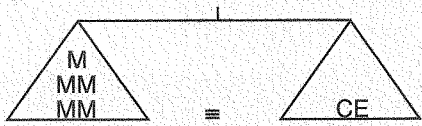
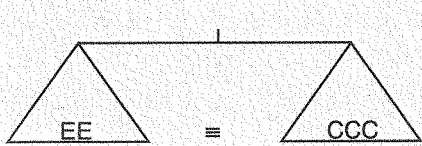
II. $\bullet = 2\star$

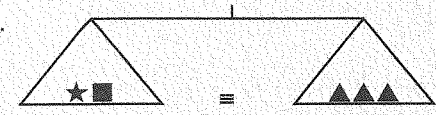
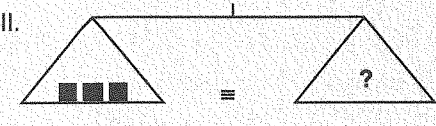
Cevap: D

TEST - 2

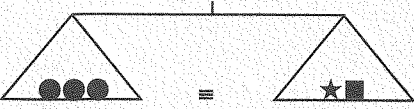
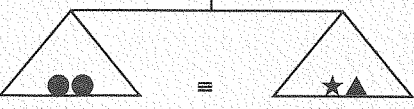
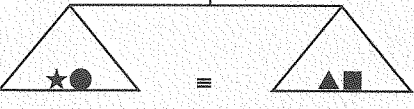
1. I.  $\equiv$
- II.  $\equiv$
- III.  $\equiv$
- A) $\triangle$ B) $\triangle \square$ C) $\triangle \triangle \triangle$
 D) $\star \star \triangle \triangle$ E) $\star \star \triangle$

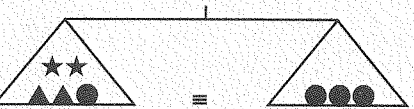
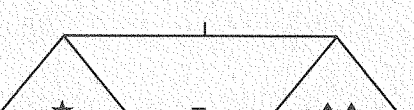
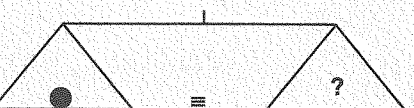
3. I.  $\equiv$
- II.  $\equiv$
- III.  $\equiv$
- A) $\square \square \square$ B) $\square \star$ C) $\star \star$
 D) $\star \star \star$ E) $\square \square$

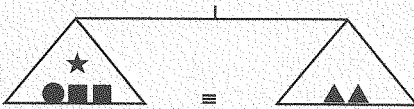
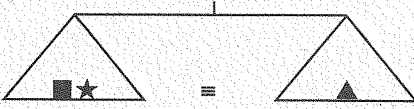
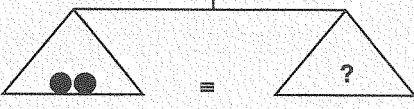
2. I.  $\equiv$
- II.  $\equiv$
- III.  $\equiv$
- A) EM B) EE C) MM D) MMM E) EEE

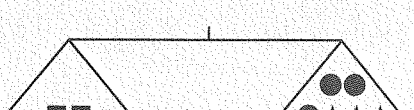
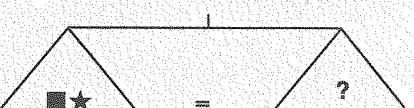
4. I.  $\equiv$
- II.  $\equiv$
- III.  $\equiv$
- A) $\star \star \star$ B) $\triangle \triangle \triangle \star$ C) $\triangle \triangle \triangle \triangle \triangle$
 D) $\triangle \triangle \star$ E) $\triangle \triangle \triangle \triangle$

TEST - 2

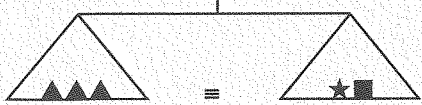
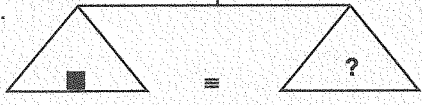
5. I. 
- II. 
- III. 
- IV. 
- A) ▲▲ B) ▲● C) ●● D) ■▲ E) ■■

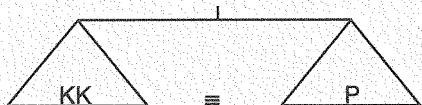
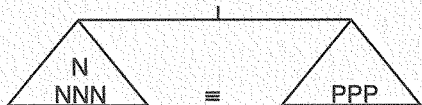
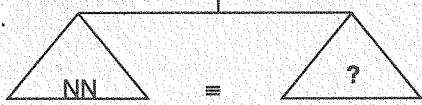
6. I. 
- II. 
- III. 
- A) ▲ B) ▲▲ C) ▲▲▲ D) ★★ E) ★★▲

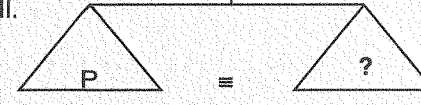
7. I. 
- II. 
- III. 
- A) ▲▲ B) ■■ C) ■▲▲
D) ★★★ E) ★★

8. I. 
- II. 
- III. 
- A) ■■● B) ●★★ C) ●●●●●
D) ●●●● E) ●●●

TEST - 2

9. I.  II.  III. 
- A) ★★ B) ▲★ C) ▲▲▲ D) ▲▲ E) ▲

10. I.  II.  III. 
- A) PP B) KKP C) KP D) KK E) KPP

11. I.  II.  III. 
- A) N B) NN C) NNN D) NK E) NNKK

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12. I.  II.  III. 
- A) ● B) ●● C) ●●●
D) ●●★ E) ●●★★

TEST - 2 ÇÖZÜMLER

1. I. $\blacksquare = 3\blacktriangle$

II. $\blacktriangle + \blacksquare = \star$

$$\blacktriangle + 3\blacktriangle = \star$$

$$4\blacktriangle = \star$$

$$\Rightarrow 2\blacksquare + \star = 6\blacktriangle + 4\blacktriangle = 10\blacktriangle = 2 \cdot (4\blacktriangle) + 2\blacktriangle$$

$$\downarrow \quad \downarrow$$

$$3\blacktriangle \quad 4\blacktriangle$$

$$\downarrow$$

$$\star$$

$$= 2\star + 2\blacktriangle$$

Cevap: D

2. I. $C + E = 5M$
 $E = 5M - C$

II. $2E = 3C$ ise
 $2(5M - C) = 3C$
 $10M - 2C = 3C$
 $10M = 5C$
 $2M = C$

Cevap: C

3. II. $\blacktriangle + 2\blacksquare = 3\star$

I. $3\blacktriangle = 5\star$

$$3\blacktriangle = 3\star + 2\star$$

$$\downarrow$$

$$3\blacktriangle = \blacktriangle + 2\blacksquare + 2\star$$

$$2\blacktriangle = 2\blacksquare + 2\star$$

$$\boxed{\blacktriangle = \blacksquare + \star}$$

Cevap: B

4. I. $\star + \blacksquare = 3\blacktriangle$

$$\star = 3\blacktriangle - \blacksquare$$

II. $\star + 2\blacktriangle = 2\blacksquare$

$$3\blacktriangle - \blacksquare + 2\blacktriangle = 2\blacksquare$$

$$5\blacktriangle - \blacksquare = 2\blacksquare$$

$$\boxed{5\blacktriangle = 3\blacksquare}$$

Cevap: C

5. II. $2\bullet = \star + \blacktriangle$

I. $3\bullet = \star + \blacksquare$

$$2\bullet + \bullet = \star + \blacksquare$$

$$\downarrow$$

$$\star + \blacktriangle + \bullet = \star + \blacksquare$$

$$\blacktriangle + \bullet = \blacksquare$$

III. $\star + \bullet = \blacktriangle + \blacksquare$

$$\downarrow$$

$$\star + \bullet = \blacktriangle + \blacktriangle + \bullet$$

$$\boxed{\star = 2\blacktriangle}$$

Cevap: A

6. I. $2\star + 2\blacktriangle + \bullet = 3\bullet$

$$2\star + 2\blacktriangle = 3\bullet - \bullet$$

$$2\star + 2\blacktriangle = 2\bullet$$

$$x + \blacktriangle = \bullet$$

$$\downarrow$$

$$2\blacktriangle + \blacktriangle = \bullet$$

$$\boxed{3\blacktriangle = \bullet}$$

II. $\star = 2\blacktriangle$

Cevap: C

TEST - 2 ÇÖZÜMLER

7. I. $\star + \bullet + 2\blacksquare = 2\blacktriangle$

II. $\blacksquare + \star = \blacktriangle$

$\bullet + \blacksquare = \blacktriangle$

$\Rightarrow$ III. $2\bullet = 2\star$

$\star = \bullet$

II. $\blacksquare + \star = \blacktriangle$

$\blacksquare + \star = \bullet + \blacksquare$

$\star = \bullet$

Cevap: E

10. $4N = 3P$ ($P = 4$)

$4.N = 3.4$

$N = 3$

$\Rightarrow$ III. $2N = 2.3 = 6$

C) $KP = 2 + 4 = 6$

I. $2K = P$

$2K = 4$

$K = 2$

Cevap: C

8. I. $\blacksquare = 4\star$ ($\star = 3$)

$\blacksquare = 4.3$

$\blacksquare = 12$

II. $2\blacksquare = 3\bullet + 3\star$

$2.12 = 3\bullet + 3.3$

$24 - 9 = 3\bullet$

$15 = 3\bullet$

$\bullet = 5$

$\Rightarrow$ III. $\blacksquare + \star = 12 + 3 = 15$

$\bullet + \bullet + \bullet = 5 + 5 + 5 = 15$

Cevap: E

11. II. $2K = 6P$ ($P = 7$)

$2.K = 6.7$

$K = 21$

$\Rightarrow$ III. $P = 7$

A) $N = 7$

I. $2K + P = 7N$

$2.21 + 7 = 7.N$

$49 = 7.N$

$7 = N$

Cevap: A

9. II. $4\blacktriangle = 2\star$ ($\star = 4$)

$4\blacktriangle = 2.4$

$\blacktriangle = 2$

$\Rightarrow$ III. $\blacksquare = 2$

E) $\blacktriangle = 2$

I. $3\blacktriangle = \star + \blacksquare$

$3.2 = 4 + \blacksquare$

$6 = 4 + \blacksquare$

$2 = \blacksquare$

Cevap: E

12. I. $3\bullet = 2\star$ ($\star = 3$)

$3\bullet = 2.3$

$\bullet = 2$

$\Rightarrow$ III. $\star + \blacktriangle = 3 + 1 = 4$

B) $\bullet\bullet = 2 + 2 = 4$

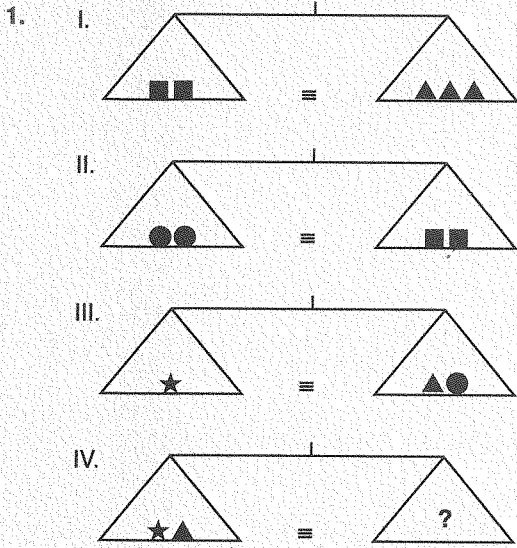
II. $3\blacktriangle = \star$

$3\blacktriangle = 3$

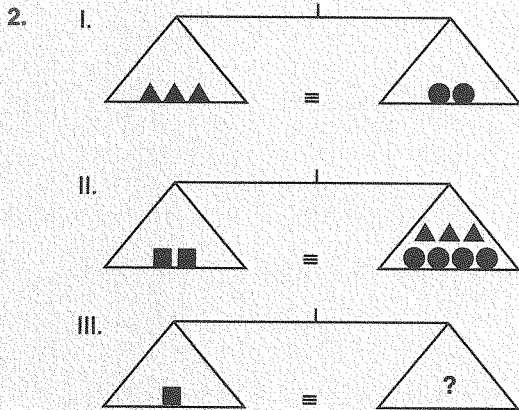
$\blacktriangle = 1$

Cevap: B

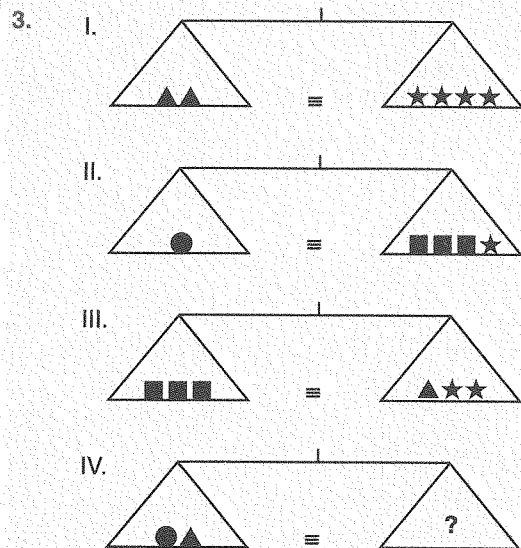
TEST - 3



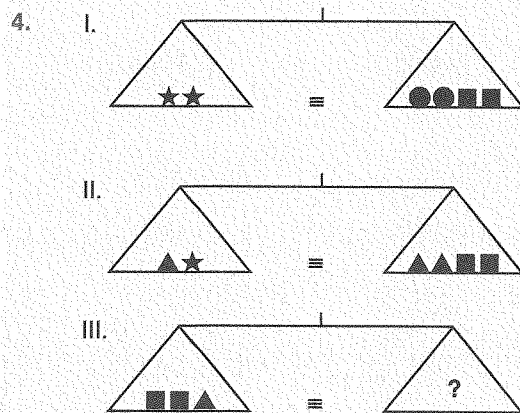
- A) ●●■ B) ★■ C) ■■
D) ■▲▲ E) ■▲



- A) ▲▲▲ B) ▲● C) ●●●
D) ●● E) ▲▲

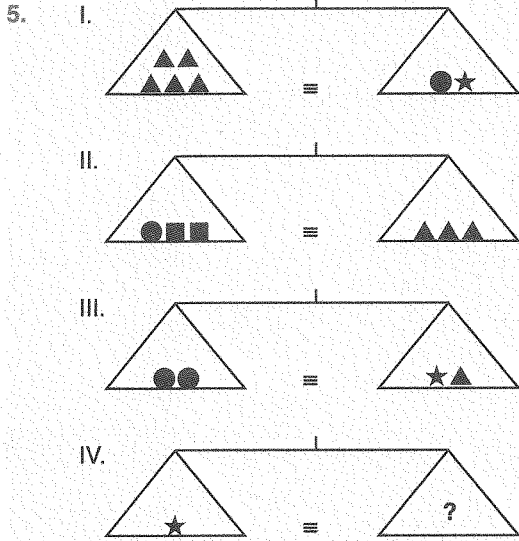


- A) ★★★ B) ■■■ C) ■■■★
D) ★★★★★ E) ■■■★★★

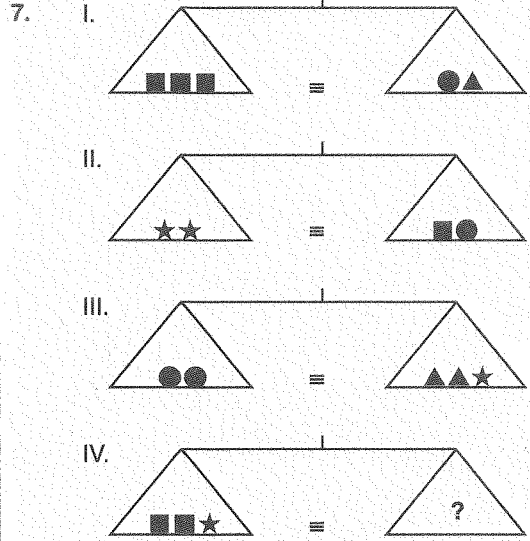


- A) ★★ B) ★● C) ★■ D) ■● E) ●●

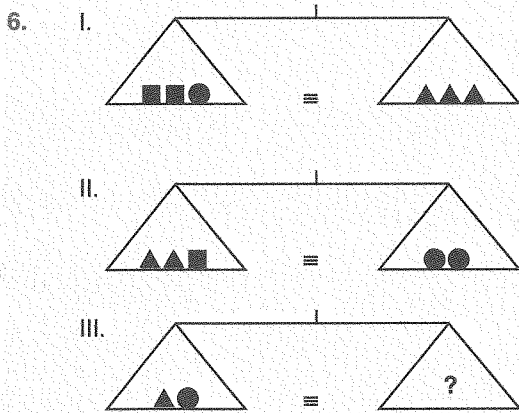
TEST - 3



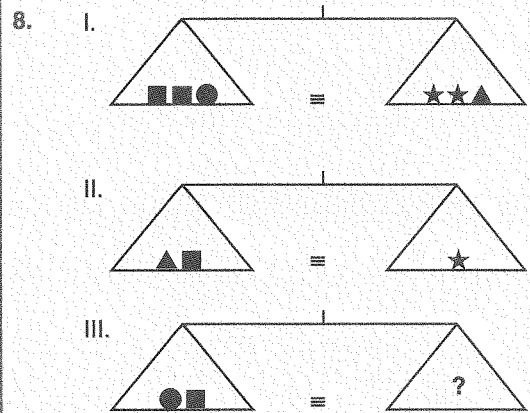
- A) ●■▲ B) ●■■ C) ■▲▲
D) ▲▲ E) ▲●●



- A) ▲▲▲ B) ▲▲ C) ▲●●
D) ●●● E) ●▲▲

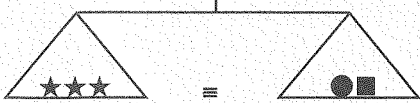
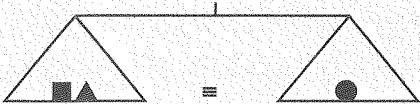
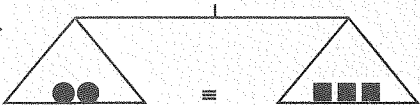
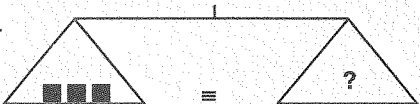


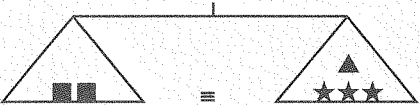
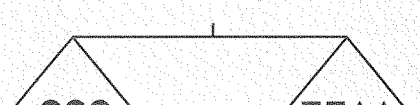
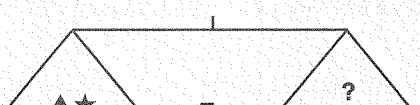
- A) ■■■ B) ■■ C) ■ D) ■● E) ■▲

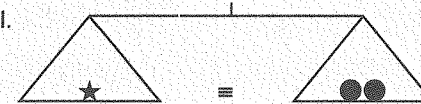
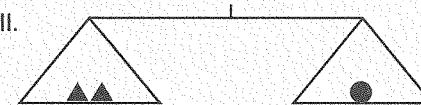
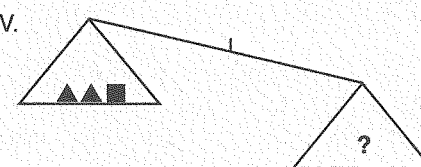


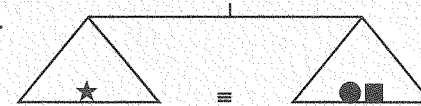
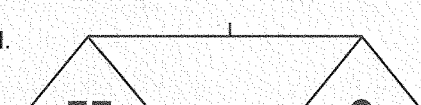
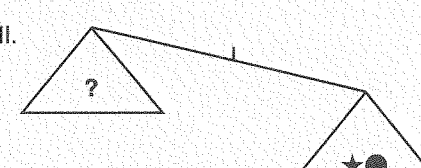
- A) ★ B) ▲ C) ▲▲ D) ★▲ E) ★▲▲

TEST - 3

9. I. 
- II. 
- III. 
- IV. 
- A) ★★▲▲ B) ★★▲ C) ★▲▲
D) ▲● E) ●●

10. I. 
- II. 
- III. 
- A) ●■ B) ●● C) ● D) ■ E) ■■

11. I. 
- II. 
- III. 
- IV. 
- A) ▲▲▲▲▲ B) ★★ C) ●●●●
D) ●●●●●● E) ●●●●●●●

12. I. 
- II. 
- III. 
- A) ■■■■■■ B) ★■ C) ★★
D) ■■● E) ●●●

TEST - 3 ÇÖZÜMLER

1. I. $2\blacksquare = 3\blacktriangle (\blacktriangle = 2)$

$$\downarrow$$

$$2\blacksquare = 3 \cdot 2$$

$$\boxed{\blacksquare = 3}$$

II. $2\bullet = 2\blacksquare$

$$\downarrow$$

$$2\bullet = 2 \cdot 3$$

$$\boxed{\bullet = 3}$$

III. $\star = \blacktriangle + \bullet$

$$\downarrow \quad \downarrow$$

$$\star = 2 + 3$$

$$\boxed{\star = 5}$$

$\Rightarrow$ IV. $\star + \blacktriangle = 5 + 2 = 7$

D) $\blacksquare\blacktriangle\blacktriangle = 3 + 2 \cdot 2 = 7$

Cevap: D

2. I. $3\blacktriangle = 2\bullet (\bullet = 3)$

$$\downarrow$$

$$3\blacktriangle = 2 \cdot 3$$

$$\boxed{\blacktriangle = 2}$$

II. $2\blacksquare = 3\blacktriangle + 4\bullet$

$$\downarrow$$

$$2\blacksquare = 3 \cdot 2 + 4 \cdot 3$$

$$2\blacksquare = 18$$

$$\boxed{\blacksquare = 9}$$

$\Rightarrow$ III. $\blacksquare = 9$

C) $\bullet\bullet\bullet = 3 \cdot 3 = 9$

Cevap: C

3. I. $2\blacktriangle = 4\star (\star = 3)$

$$\downarrow$$

$$2\blacktriangle = 4 \cdot 3$$

$$\boxed{\blacktriangle = 6}$$

III. $3\blacksquare = \blacktriangle + 2\star$

$$\downarrow \quad \downarrow$$

$$3\blacksquare = 6 + 2 \cdot 3$$

$$\boxed{\blacksquare = 4}$$

II. $\bullet = 3\blacksquare + \star$

$$\downarrow \quad \downarrow$$

$$\bullet = 3 \cdot 4 + 3$$

$$\boxed{\bullet = 15}$$

$\Rightarrow$ IV. $\bullet + \blacktriangle = (15 + 6) = 21$

E) $\blacksquare\blacksquare\blacksquare\star\star\star = 3 \cdot 4 + 3 \cdot 3 = 21$

Cevap: E

4. I. $2\star = 2\bullet + 2\blacksquare (\bullet = 3, \blacksquare = 2)$

$$\downarrow \quad \downarrow$$

$$2\star = 2 \cdot 3 + 2 \cdot 2$$

$$2\star = 10$$

$$\boxed{\star = 5}$$

II. $\blacktriangle + \star = 2\blacktriangle + 2\blacksquare$

$$\downarrow \quad \downarrow$$

$$\blacktriangle + 5 = 2\blacktriangle + 2 \cdot 2$$

$$\blacktriangle + 5 = 2\blacktriangle + 4$$

$$\boxed{\blacktriangle = 1}$$

$\Rightarrow$ III. $2\blacksquare + \blacktriangle = 2 \cdot 2 + 1 = 5$

D) $\blacksquare\bullet = 2 + 3 = 5$

Cevap: D

5. I. $5\blacktriangle = \bullet + \star (\bullet = 4, \star = 6)$

$$\downarrow \quad \downarrow$$

$$5\blacktriangle = 4 + 6$$

$$5\blacktriangle = 10$$

$$\boxed{\blacktriangle = 2}$$

II. $\bullet + 2\blacksquare = 3\blacktriangle$

$$\downarrow \quad \downarrow$$

$$4 + 2\blacksquare = 3 \cdot 2$$

$$2\blacksquare = 2$$

$$\boxed{\blacksquare = 1}$$

III. $2\bullet = \star + \blacktriangle$

$$\downarrow \quad \downarrow$$

$$2\bullet = 6 + 2$$

$$2\bullet = 8$$

$$\boxed{\bullet = 4}$$

$\Rightarrow$ IV. $\star = 6$

B) $\bullet\blacksquare\blacksquare = 4 + 2 \cdot 1 = 6$

Cevap: B

TEST - 3 ÇÖZÜMLER

6. II. $2\blacktriangle + \blacksquare = 2\bullet$
 $2\blacktriangle = 2\bullet - \blacksquare$

I. $2\blacksquare + \bullet = 3\blacktriangle$
 $2\blacksquare + \bullet = 2\blacktriangle + \blacktriangle$

$$\begin{array}{r} 2\blacksquare + \bullet = 2\bullet - \blacksquare + \blacktriangle \\ 2\blacksquare + \bullet = 2\bullet - \blacksquare + \blacktriangle \\ \hline 3\blacksquare = \bullet + \blacktriangle \end{array}$$

Cevap: A

7. III. $2\bullet = 2\blacktriangle + \star$

I. $3\blacksquare = \bullet + \blacktriangle$

II. $2\star = \blacksquare + \bullet$

$$\begin{array}{r} 3\blacksquare + 2\star = 2\bullet + \blacksquare + \blacktriangle \\ \hline 3\blacksquare + 2\star = 2\blacktriangle + \star + \blacksquare + \blacktriangle \\ 3\blacksquare + 2\star - \star - \blacksquare = 3\blacktriangle \end{array}$$

$$\begin{array}{r} 3\blacksquare + 2\star = 2\blacktriangle + \star + \blacksquare + \blacktriangle \\ 3\blacksquare + 2\star - \star - \blacksquare = 3\blacktriangle \\ \hline 2\blacksquare + \star = 3\blacktriangle \end{array}$$

Cevap: A

8. II. $\blacktriangle + \blacksquare = \star$
 $\downarrow \quad \downarrow \quad \downarrow$
 $3 + 1 = 4$

I. $2\blacksquare + \bullet = 2\star + \blacktriangle$
 $\downarrow \quad \downarrow \quad \downarrow$
 $2.1 + \bullet = 2.4 + 3$
 $\bullet = 9$

$\Rightarrow$ III. $\bullet + \blacksquare = 9 + 1 = 10$

E) $\star\blacktriangle\blacktriangle = 4 + 2.3 = 10$

Cevap: E

9. I. $3\star = \bullet + \blacksquare$

II. $\blacksquare + \blacktriangle = \bullet$

$$\begin{array}{r} 3\star + \blacksquare + \blacktriangle = 2\bullet + \blacksquare \\ \hline 3\star + \blacktriangle = 2\bullet \end{array}$$

$\Rightarrow$ IV. $3\blacksquare = 3\star + \blacktriangle$

III. $2\bullet = 3\blacksquare$

$$\begin{array}{r} 2\bullet = 3\blacksquare \\ \downarrow \\ 3\star + \blacktriangle = 3\blacksquare \end{array}$$

Cevap: A

10. I. $2\blacksquare = 3\star + \blacktriangle$

II. $3\bullet = 2\blacksquare + 2\blacktriangle$

$$\begin{array}{r} 3\bullet = 3\star + \blacktriangle + 2\blacktriangle \\ 3\bullet = 3\star + 3\blacktriangle \\ \hline \bullet = \star + \blacktriangle \end{array}$$

Cevap: C

11. III. $2\blacktriangle = \bullet (\bullet = 4)$

$$\begin{array}{r} 2\blacktriangle = 4 \\ \hline \blacktriangle = 2 \end{array}$$

II. $\star = 2\bullet$

$$\begin{array}{r} \star = 2.4 \\ \hline \star = 8 \end{array}$$

I. $\blacksquare = 2\star$

$$\begin{array}{r} \blacksquare = 2.8 \\ \hline \blacksquare = 16 \end{array}$$

$\Rightarrow$ IV. $2\blacktriangle + \blacksquare = 2.2 + 16 = 20$

E) $\bullet\bullet\bullet\bullet\bullet\bullet = 6\bullet = 6.4 = 24$

Cevap: E

12. II. $2\blacksquare = \bullet (\bullet = 4)$

$$\begin{array}{r} 2\blacksquare = 4 \\ \hline \blacksquare = 2 \end{array}$$

I. $\star = \bullet + \blacksquare$

$$\begin{array}{r} \star = 4 + 2 \\ \hline \star = 6 \end{array}$$

$\Rightarrow$ III. $\star + \bullet = 6 + 4 = 10$

D) $\blacksquare\blacksquare\bullet = 2.2 + 4 = 8$

$10 > 8$

Cevap: D

ŞEKİL İLİŞKİLERİ (FIGURE RELATIONS)

TEST - 1

1. I.

2	3	5	6
7	9	1	4
12	13	17	16
21	23	8	14

→

17	16	12	13
8	14	21	23
5	6	2	3
1	4	7	9

II.

a	b	d	e
c	k	m	n
p	r	s	t
u	ü	v	y

→ ?

A)

c	k	m	n
a	b	d	e
u	ü	v	y
p	r	s	t

B)

e	d	b	a
n	m	k	c
t	s	r	p
y	v	ü	u

C)

s	t	p	r
v	y	u	ü
d	e	a	b
m	n	c	k

D)

s	t	r	p
v	y	ü	u
d	e	b	a
m	n	k	c

E)

r	p	t	s
ü	u	y	v
b	a	e	d
k	c	n	m

2. I.

5	3	2	4
6	1	7	2
8	3	9	4
7	2	5	1

→

8	6
7	9
11	13
9	6

II.

1	2	3	4
5	6	7	8
9	8	7	6
5	4	3	2

→ ?

A)

6	9
18	21
24	21
12	9

B)

3	7
11	15
17	13
9	5

C)

7	3
15	11
13	17
5	9

D)

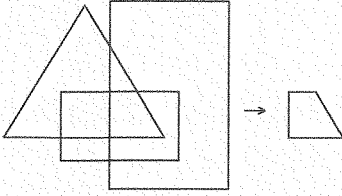
4	6
12	14
16	14
8	6

E)

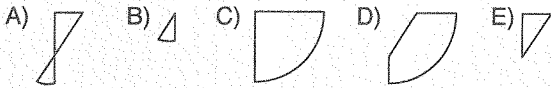
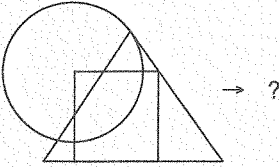
6	4
14	12
14	16
6	8

TEST - 1

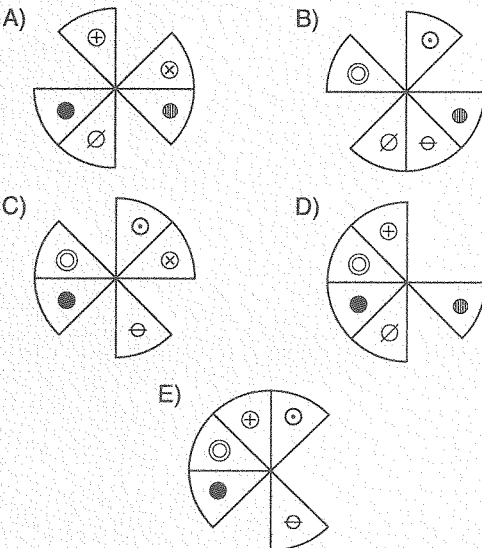
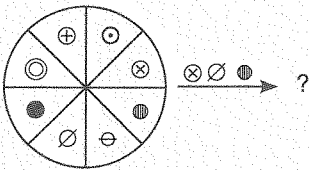
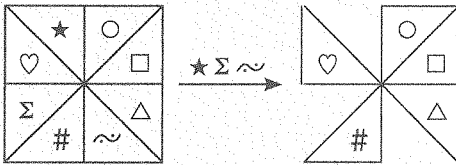
3. I.



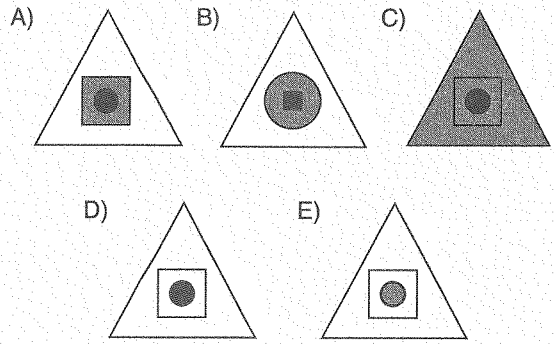
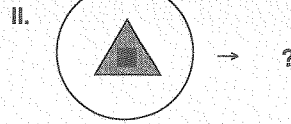
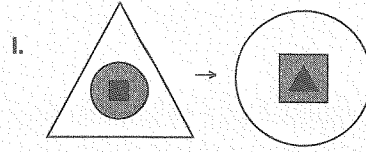
II.



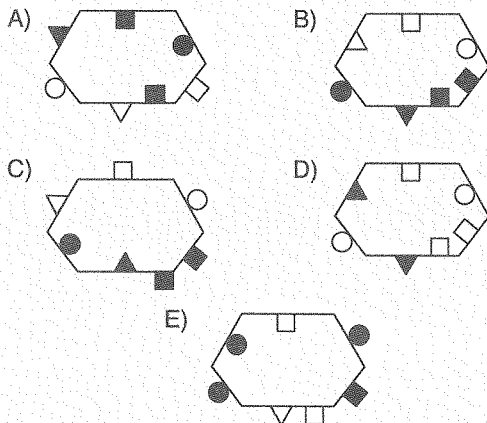
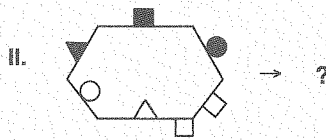
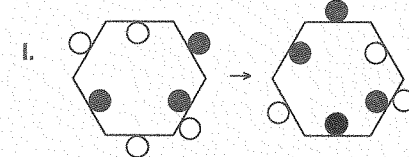
4.



5.



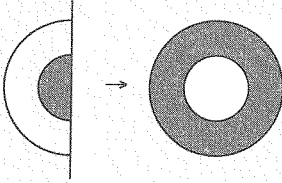
6.



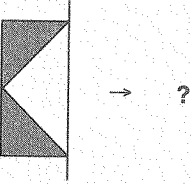
TEST - 1

7.

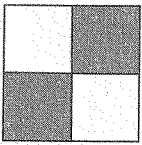
I.



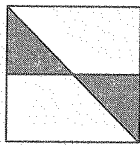
II.



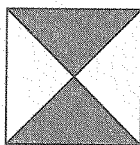
A)



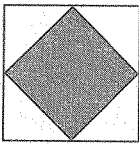
B)



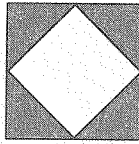
C)



D)

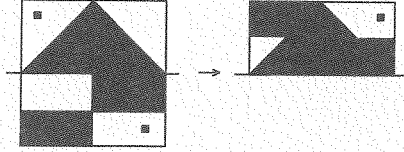


E)

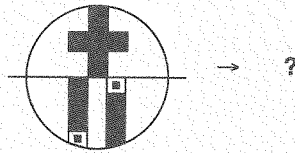


8.

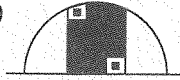
I.



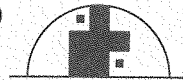
II.



A)



B)



C)



D)

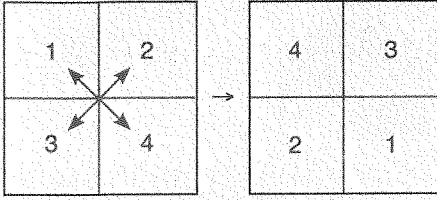


E)



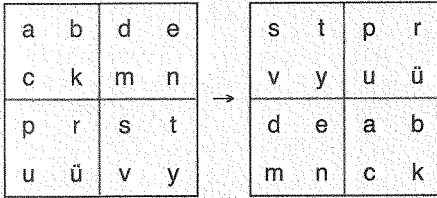
TEST - 1 ÇÖZÜMLER

1. I.



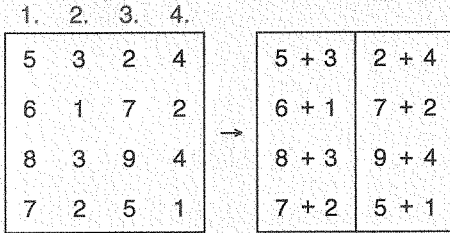
1 ve 4 ; 2 ve 3 yer değiştirmiş.

II.



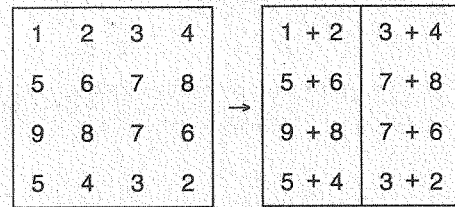
Cevap: C

2. I.

1. ve 2.
sütunların
karşılıklı
elemanları
toplanmış.3. ve 4.
sütunların
karşılıklı
elemanları
toplanmış.

8	6
7	9
11	13
9	6

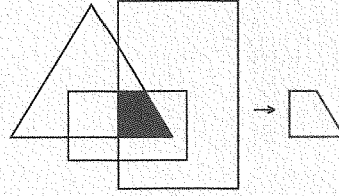
II.



3	7
11	15
17	13
9	5

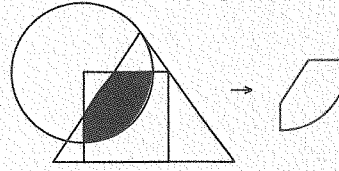
Cevap: B

3. I.



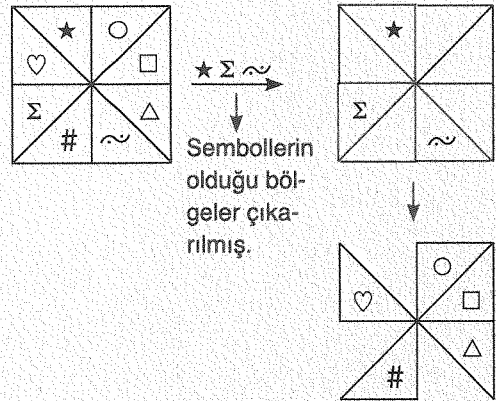
Üç şeklin ortak bölgesi alınmış.

II.

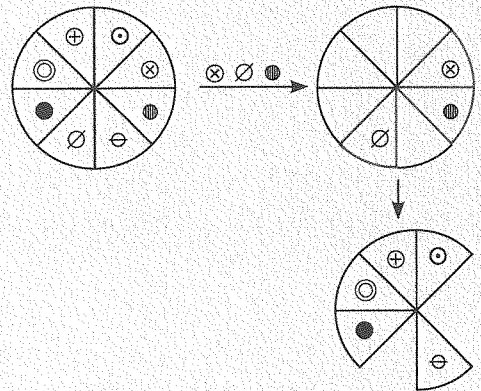


Cevap: D

4. I.



II.

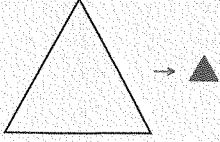


Cevap: E

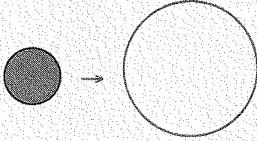
TEST - 1 ÇÖZÜMLER

5.

I.



En büyük şekil en küçük şekile içi boşken tamamı dolu olarak dönüşmüştür.

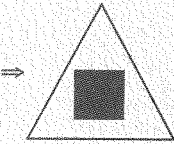
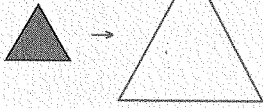
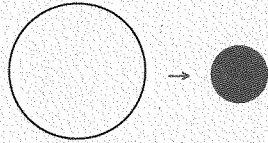


Ortanca şekil büyük şekile içi taralıyken tamamı boş olarak dönüşmüştür.



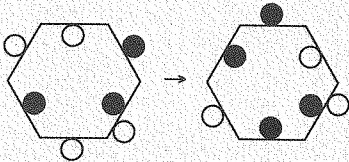
Küçük şekil ortanca şekile tamamı doluyken tamamı taralı olarak dönüşmüştür.

II.



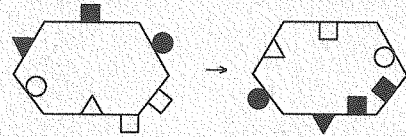
Cevap: A

6. I.



İçerdeki şekil dışarıya, dışardaki şekil içeriye taralıyken boş, boşken taralı olarak taşınmıştır.

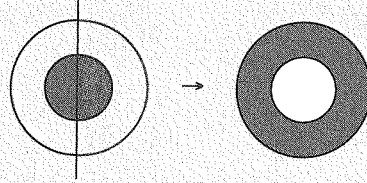
II.



Cevap: B

7.

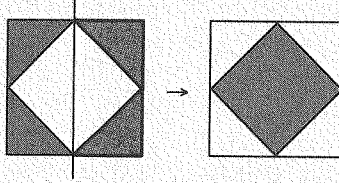
I.



Şeklin doğruya göre simetriği çizilmiştir.

Daha sonra boş olan yer dolu, dolu olan yer boş olarak dönüşmüştür.

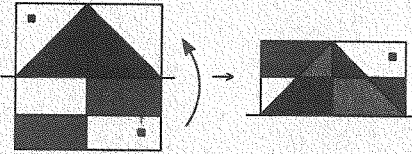
II.



Cevap: D

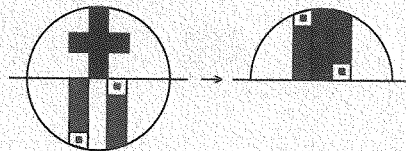
TASARI AKADEMİ YATIRILARI

8. I.



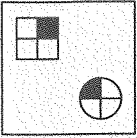
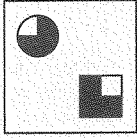
Şekil üste doğru katlanmış.

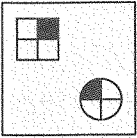
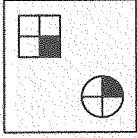
II.

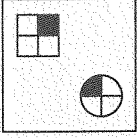


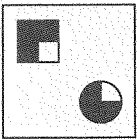
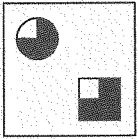
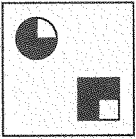
Cevap: A

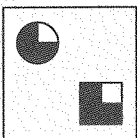
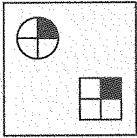
TEST - 2

1. I.  $\rightarrow$ 

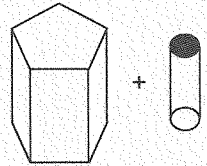
II.  $\rightarrow$ 

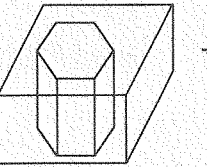
III.  $\rightarrow$?

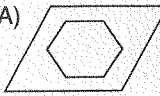
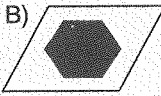
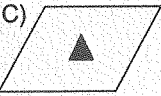
A)  B)  C) 

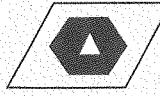
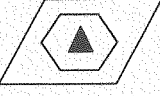
D)  E) 

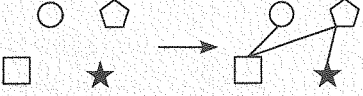
TASARI AKADEMİ YAYINLARI

2. I.  $\rightarrow$ 

II.  $\rightarrow$?

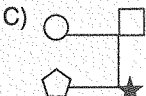
A)  B)  C) 

D)  E) 

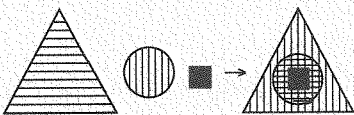
3. I. 

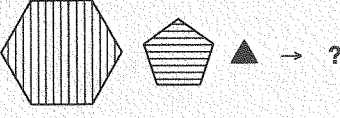
II. 

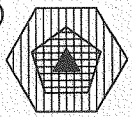
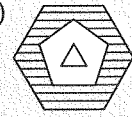
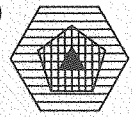
III. 

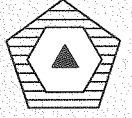
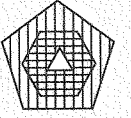
A)  B)  C) 

D)  E) 

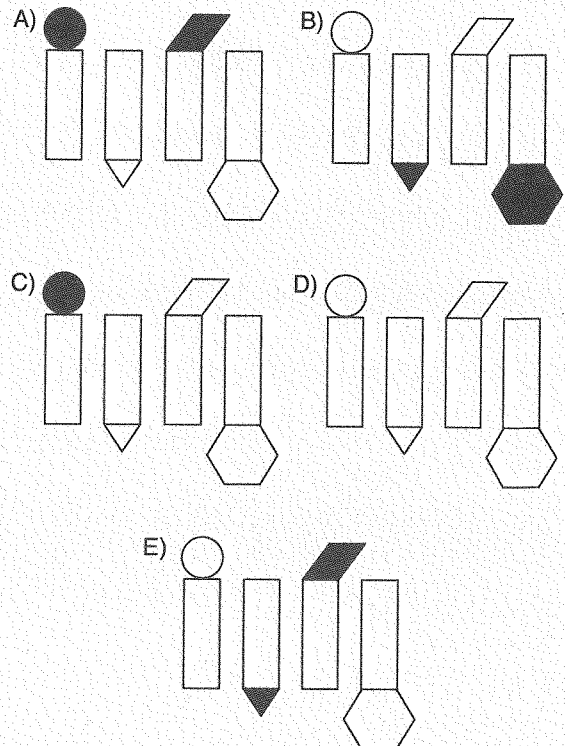
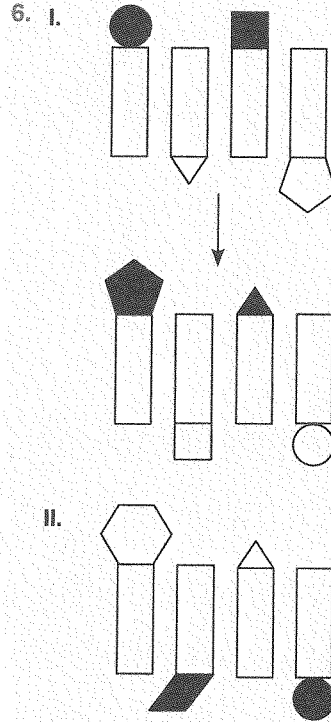
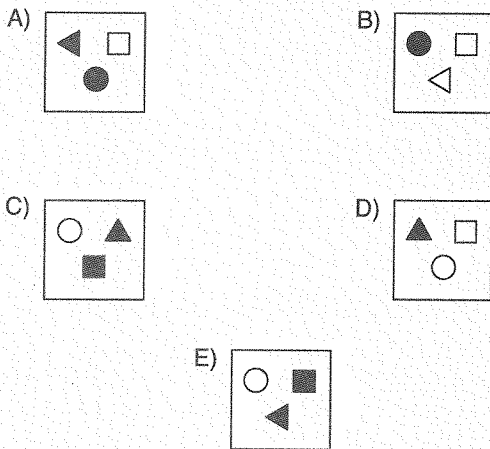
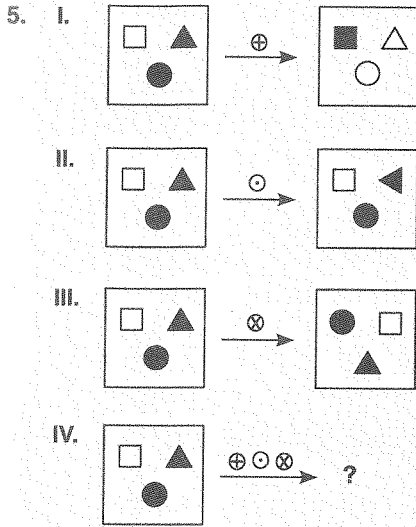
4. I. 

II. 

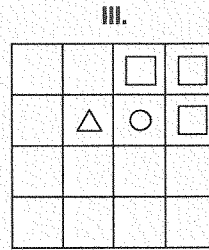
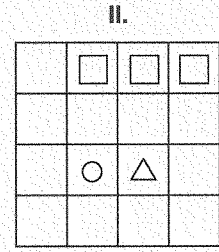
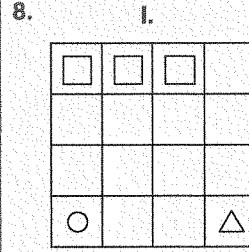
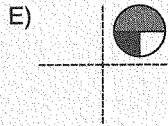
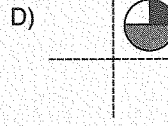
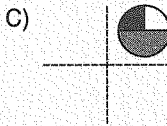
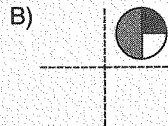
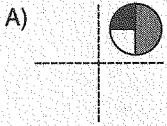
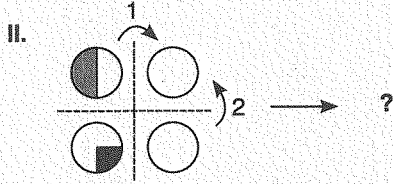
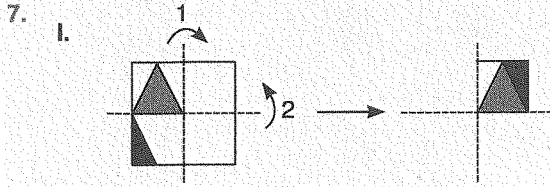
A)  B)  C) 

D)  E) 

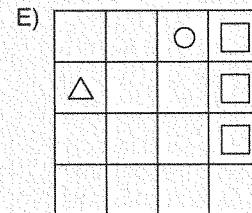
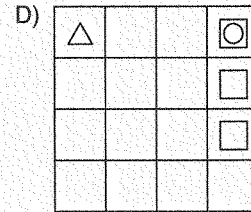
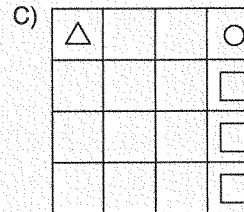
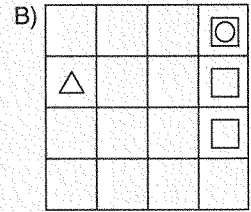
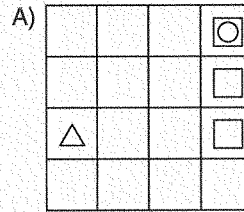
TEST - 2



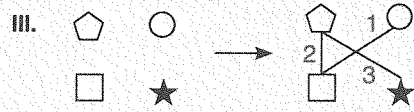
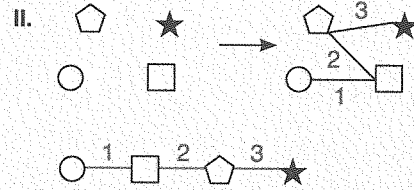
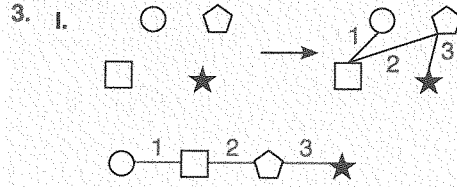
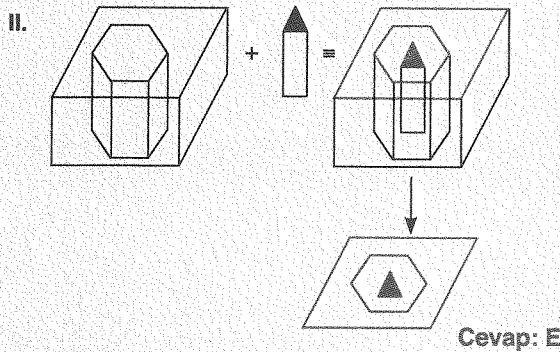
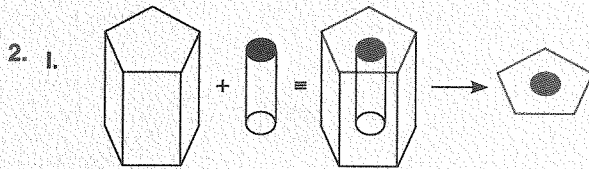
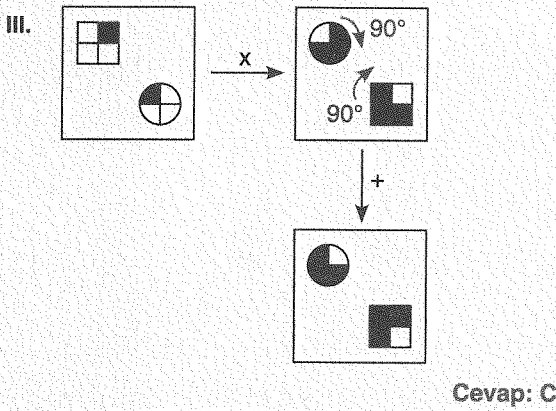
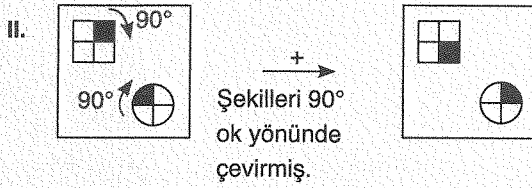
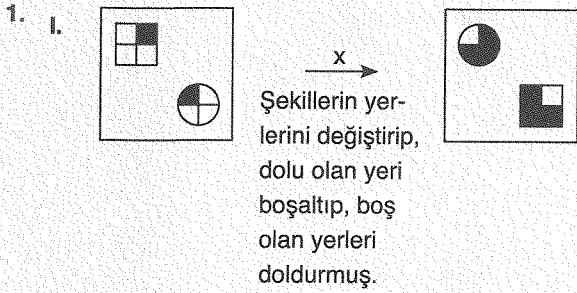
TEST - 2



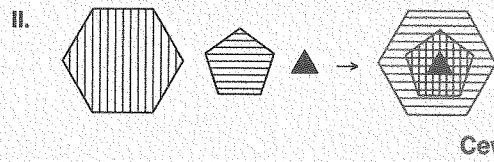
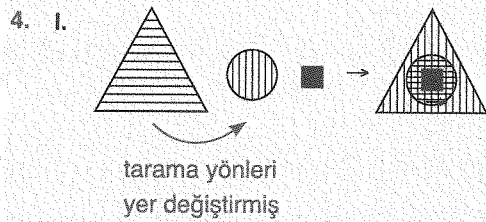
IV.
?



TEST - 2 ÇÖZÜMLER



Cevap: B



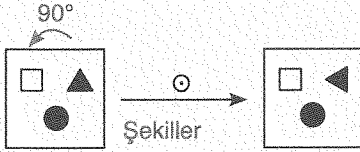
TEST - 2 ÇÖZÜMLER

5. I.



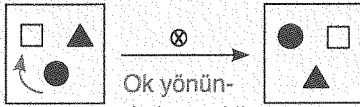
Dolu olan
boşa, boş
olan doluya
çevrilmiş

II.



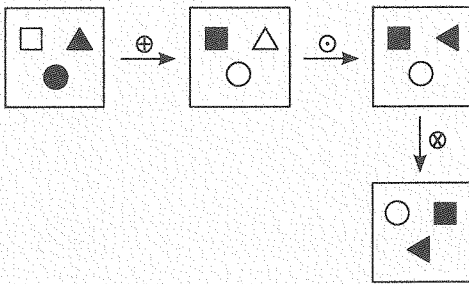
Şekiller
oldukları
yerde ok
yönünde
90° döndü-
rılmış

III.



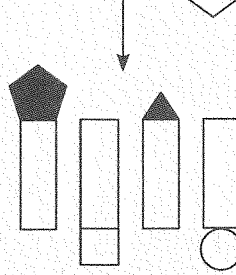
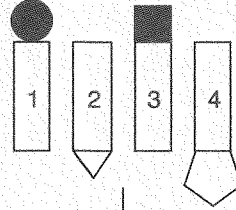
Ok yönün-
de her şekil
önündekiyle
yer değiştir-
miş

IV.



Cevap: E

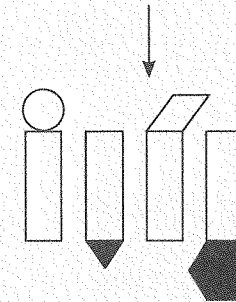
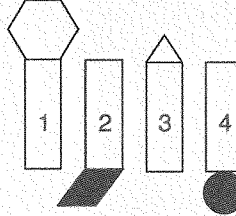
6. I.



1. ve 4.
2. ve 3.

⇒ Numaralı çubukların uçlarındaki
şekiller yer değiştirmiş. Boş olan dolu,
dolu olan boşa çevrilmiş

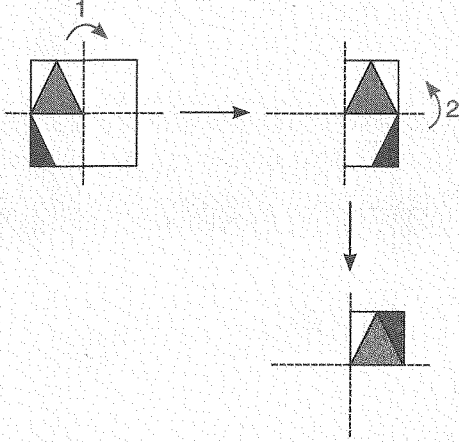
II.



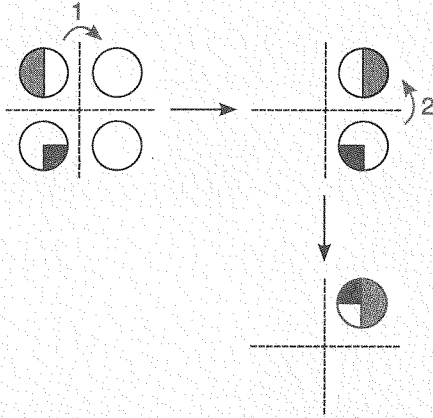
Cevap: B

TEST - 2 ÇÖZÜMLER

7. I.



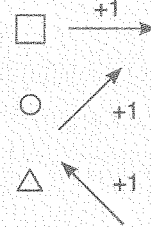
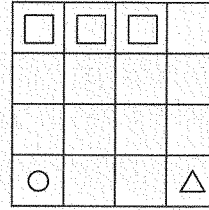
II.



Cevap: A

8.

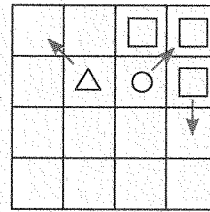
I.



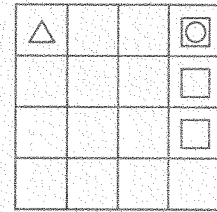
Ok yönünde birer bölme yer değiştiriyorlar

O halde;

III.

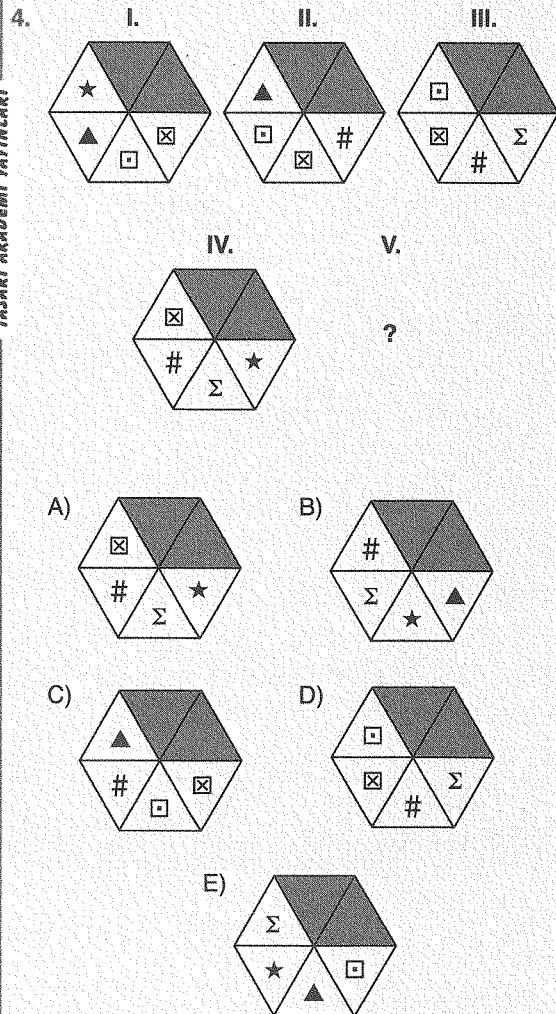
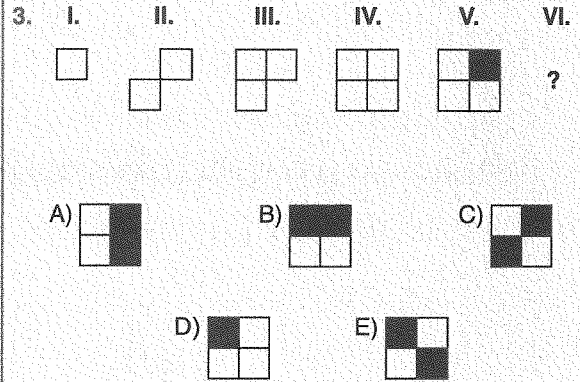
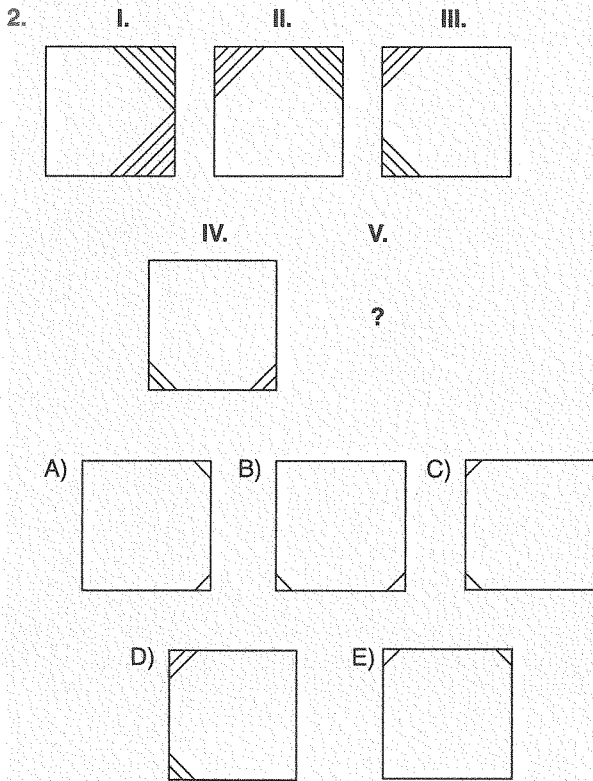
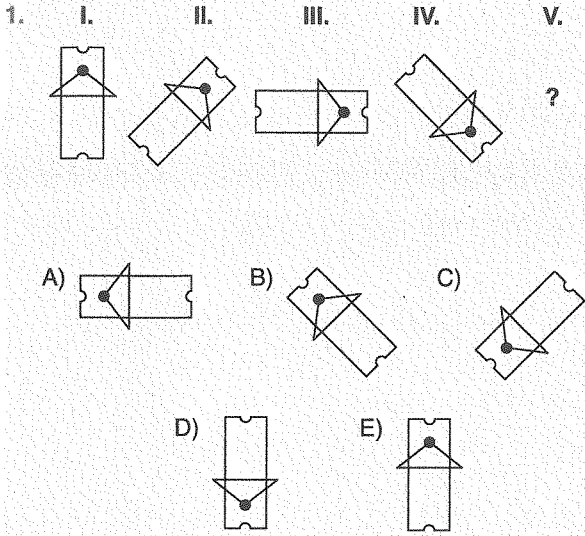


IV.

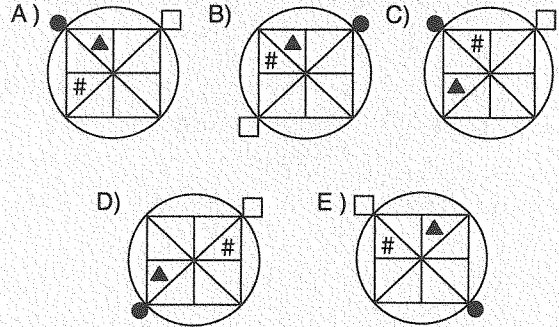
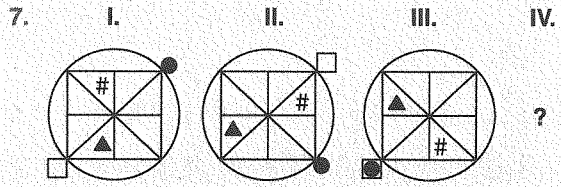
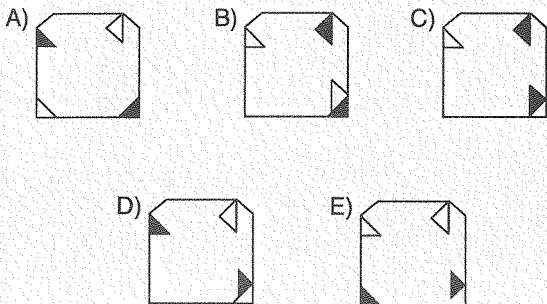
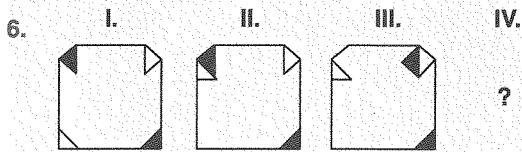
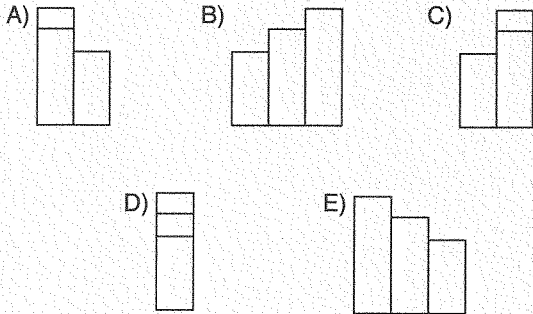
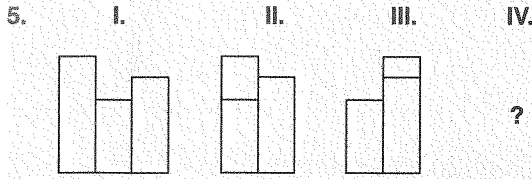


Cevap: D

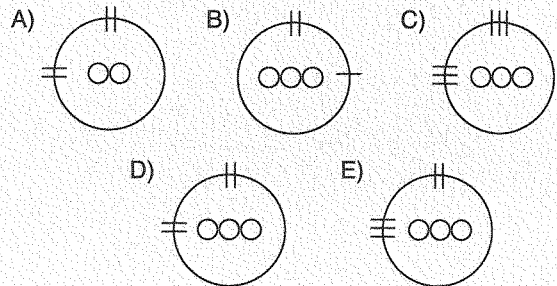
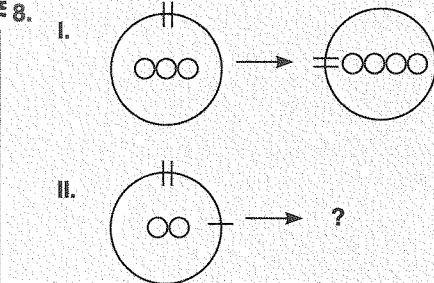
TEST - 3



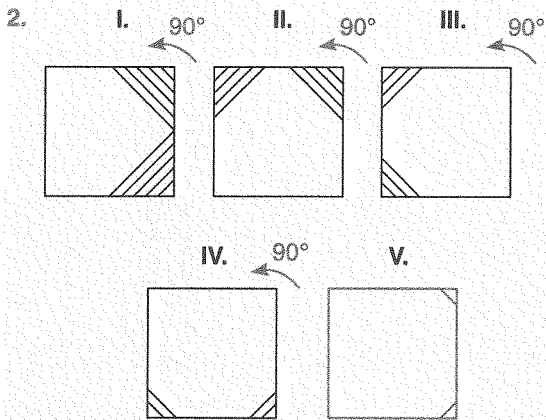
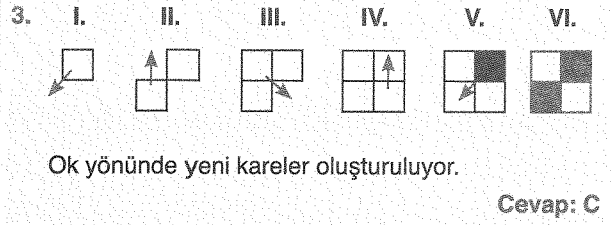
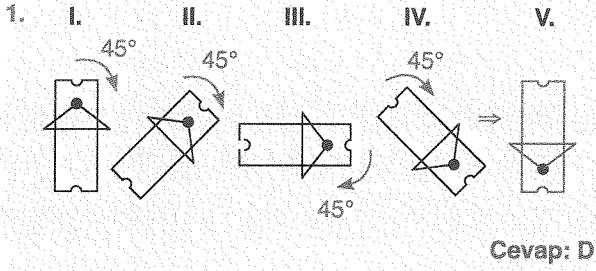
TEST - 3



TASARI AKADEMİ YAYINLARI

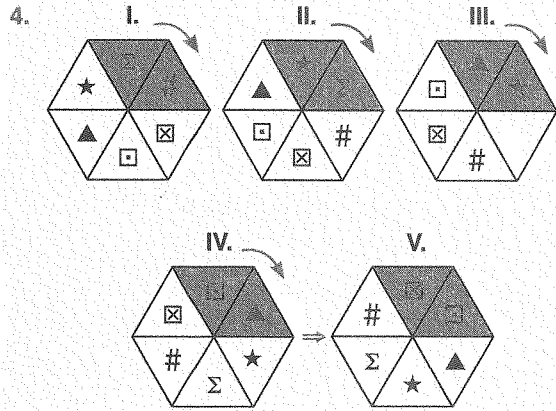


TEST - 3 ÇÖZÜMLER



Ok yönünde 90° döndürüp çizgi sayılarını her adımda birer azaltmış

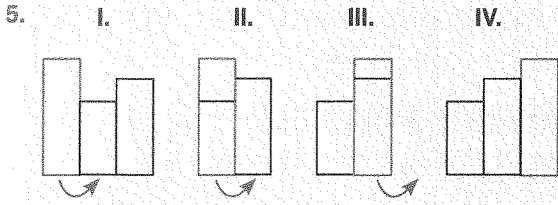
Cevap: A



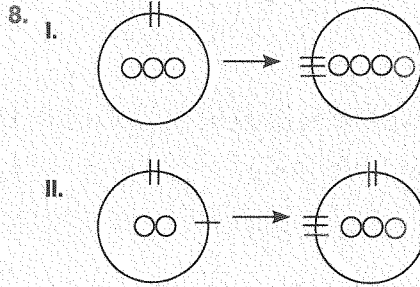
Ok yönünde her bir şekil bir bölme atlayarak ilerlemiş.

Cevap: B

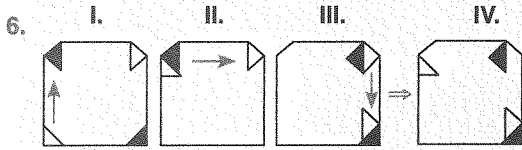
TEST - 3 ÇÖZÜMLER



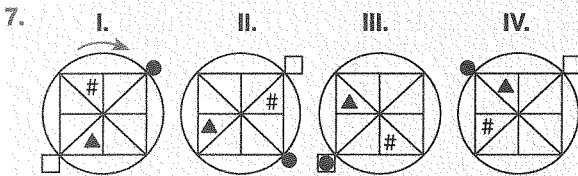
Cevap: B



Cevap: E



Cevap: B

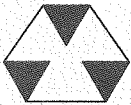
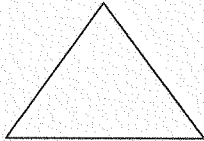
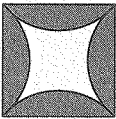
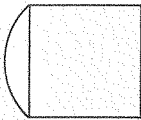
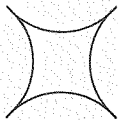
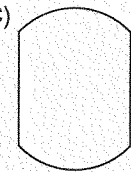
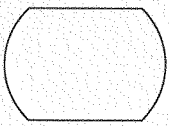
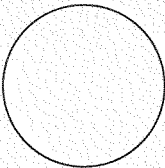


- # Ok yönünde iki bölme yer değiştiriyor.
- ▲ Ok yönünde bir bölme yer değiştiriyor.
- Ok yönünde bir sonraki köşeye kayıyor.
- Karşılıklı köşe üzerinde hareket ediyor.

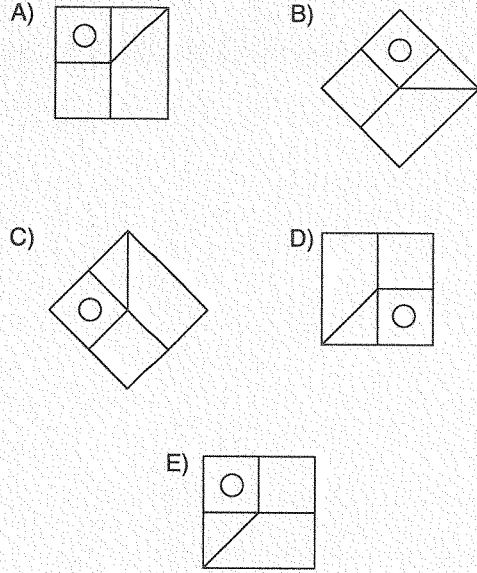
Cevap: A

TEST - 4

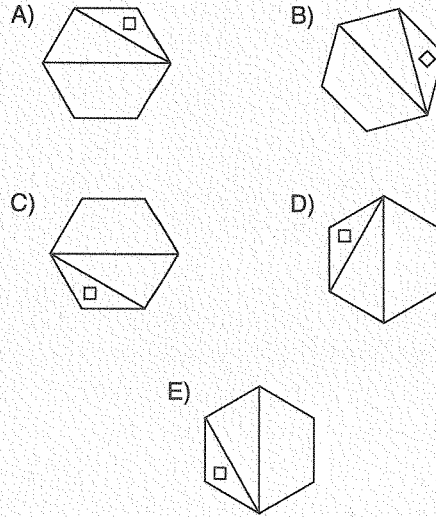
1. I.   ★  = 35
- II.   ★  = 30
- III.   ★  = ?
- A) 28 B) 32 C) 36 D) 44 E) 48

2. I.  → 
- II.  → ?
- A)  B)  C) 
- D)  E) 

3. Aşağıdakilerden hangisi belirgin bir özelliği ile diğerlerinden farklıdır?

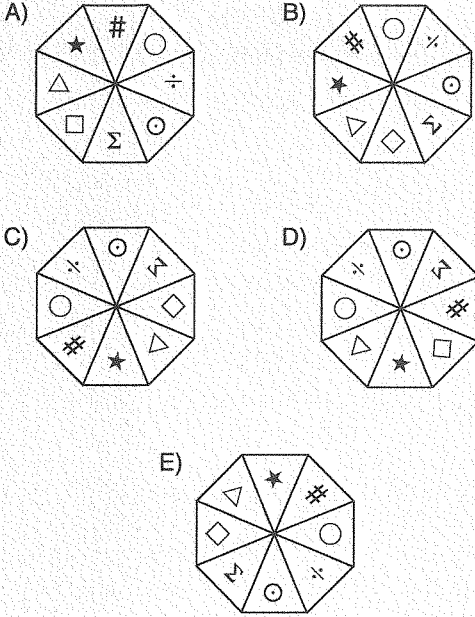


4. Aşağıdakilerden hangisi belirgin bir özelliği ile diğerlerinden farklıdır?

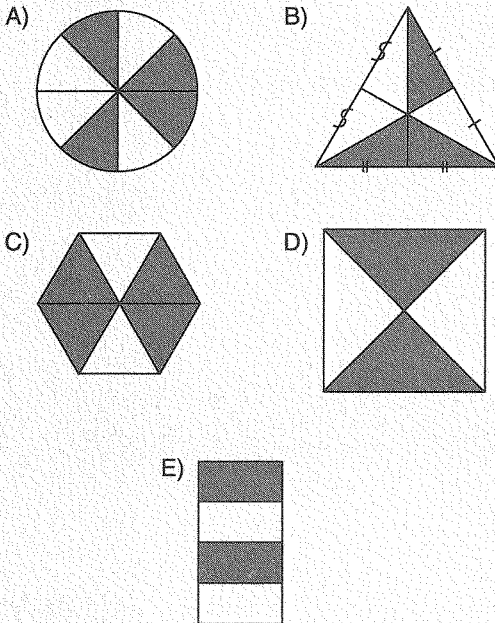


TEST - 4

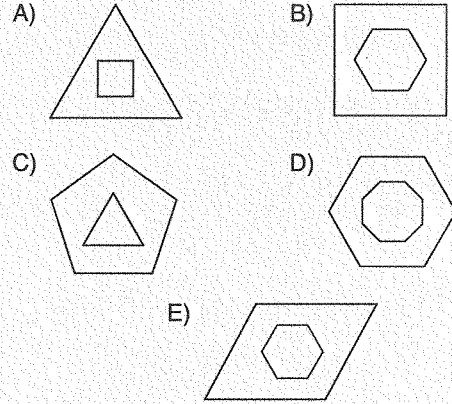
5. Aşağıdakilerden hangisi belirgin bir özelliği ile diğerlerinden farklıdır?



6. Aşağıdakilerden hangisi belirgin bir özelliği ile diğerlerinden farklıdır?

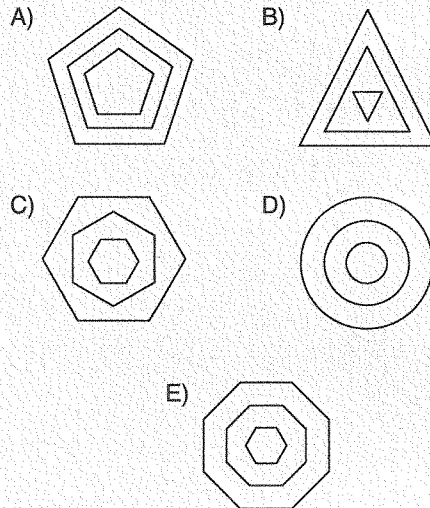


7. Aşağıdakilerden hangisi belirgin bir özelliği ile diğerlerinden farklıdır?



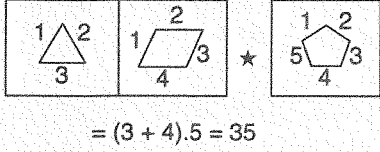
TASARI AKADEMİ YAYINLARI

8. Aşağıdakilerden hangisi belirgin bir özelliği ile diğerlerinden farklıdır?

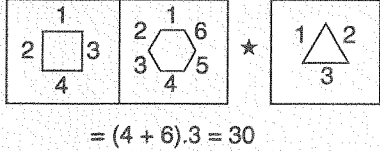


TEST - 4 ÇÖZÜMLER

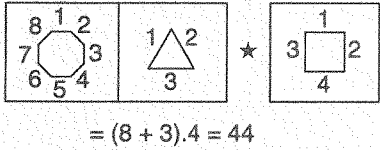
1. I.



II.

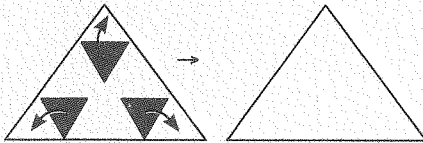


III.

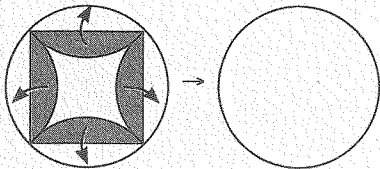


Cevap: D

2. I.

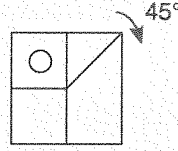


II.

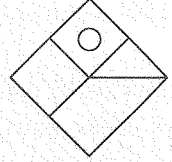


Cevap: E

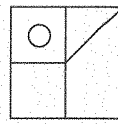
3.



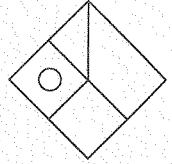
A şıkkı 45°
ok yönünde
döndürülürse
B seçeneği
elde edilir.



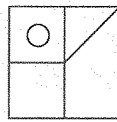
45°



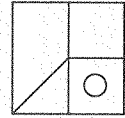
A şıkkı 45°
ok yönünde
döndürülürse
C seçeneği
elde edilir.



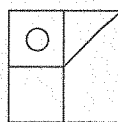
180°



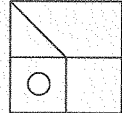
A şıkkı 180°
ok yönünde
döndürülürse
D seçeneği
elde edilir.



90°

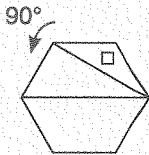


A şıkkı 90°
ok yönünde
döndürülürse
E seçeneği
elde edilmez.

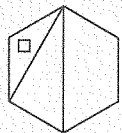


Cevap: E

4.



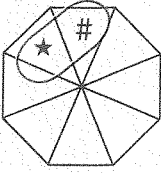
A şıkkı 90°
ok yönünde
döndürülürse
D seçeneği
elde edilir.
E seçeneği
elde edilmez.



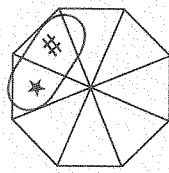
Cevap: E

TEST - 4 ÇÖZÜMLER

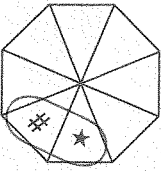
5. A)



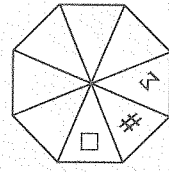
B)



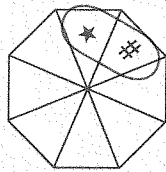
C)



D)



E)



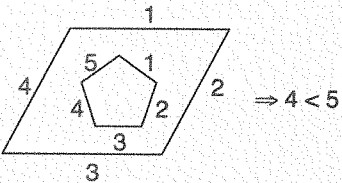
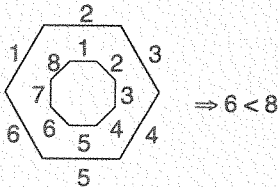
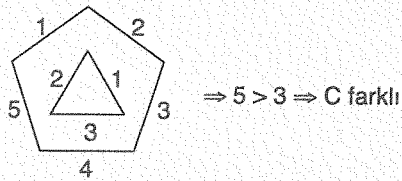
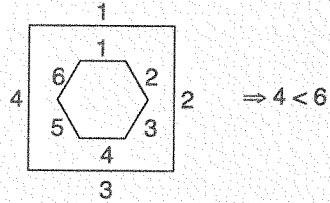
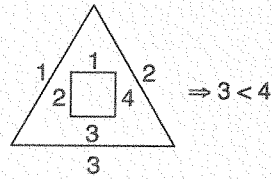
Cevap: D

6.

	Taralı Bölge Sayısı	Taralı Olmayan Bölge Sayısı
A	4	4
B	3	3
C	4	2
D	2	2
E	2	2

Cevap: C

7.



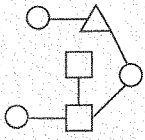
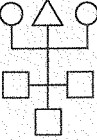
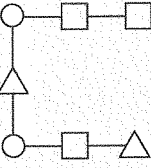
Cevap: C

8. E şıkkı hariç diğer seçenekler iç içe verilen şekillerin hepsi aynı.

Cevap: E

TEST - 5

1.

	I.	II.	III.
	A	2	3
	1	B	2
	2	3	C

 $\Rightarrow A + B + C = ?$

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

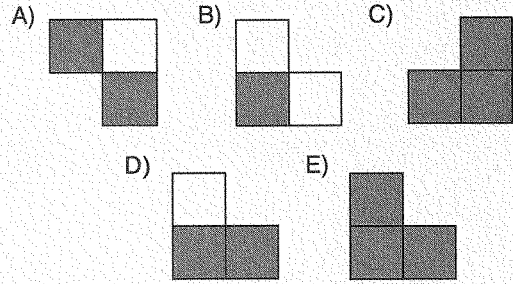
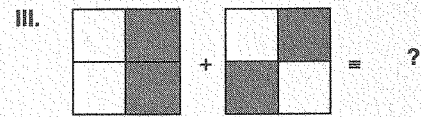
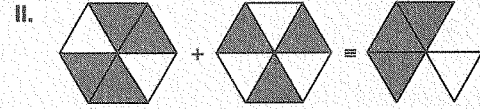
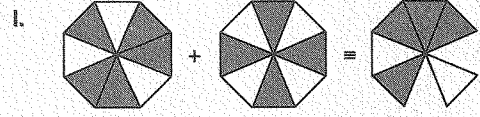
2.

	I.	II.	III.
	8	6	K
	6	L	9
	M	7	15

 $\Rightarrow K + L + M = ?$

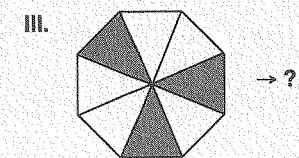
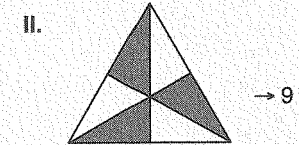
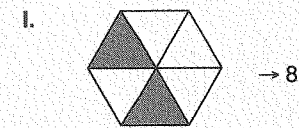
A) 23 B) 24 C) 25 D) 26 E) 27

3.



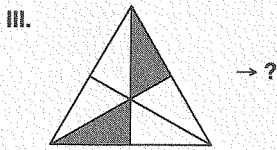
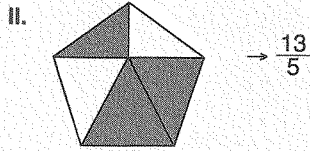
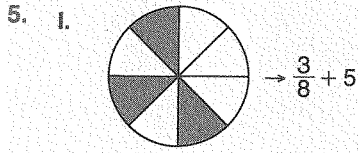
TASARI AKADEMİ YAYINLARI

4.

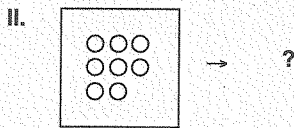
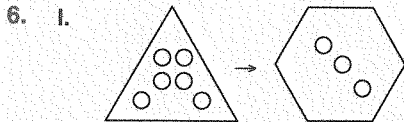


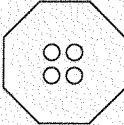
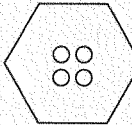
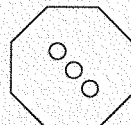
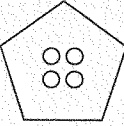
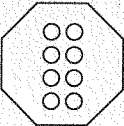
A) 9 B) 12 C) 15 D) 18 E) 24

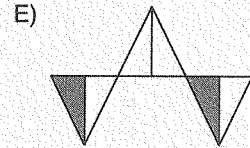
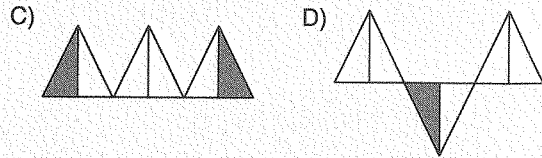
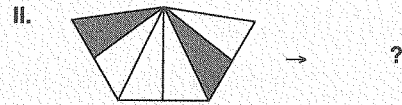
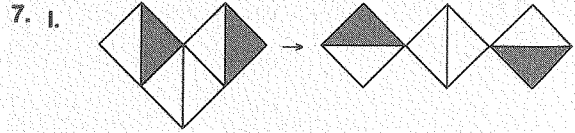
TEST - 5



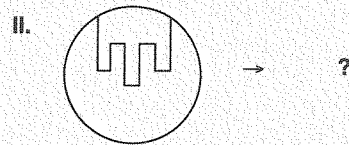
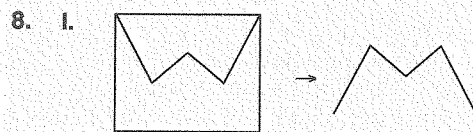
- A) $\frac{15}{2}$ B) $\frac{15}{4}$ C) $\frac{13}{3}$ D) $\frac{13}{4}$ E) $\frac{13}{5}$



- A)  B)  C) 
D)  E) 

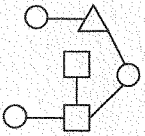
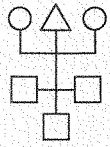
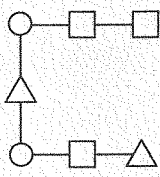


TASARI AKADEMİ YAYINLARI

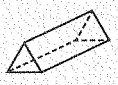


- A)  B)  C) 
D)  E) 

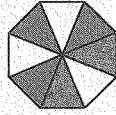
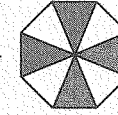
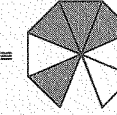
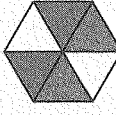
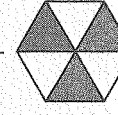
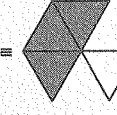
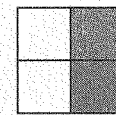
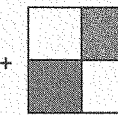
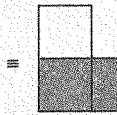
TEST - 5 ÇÖZÜMLER

1.  $\triangle \rightarrow 1 \text{ tane} \Rightarrow A = 1$
 $\square \rightarrow 2 \text{ tane}$
 $\bigcirc \rightarrow 3 \text{ tane}$
-  $\triangle \rightarrow 1 \text{ tane}$
 $\square \rightarrow 3 \text{ tane} \Rightarrow B = 3$
 $\bigcirc \rightarrow 2 \text{ tane}$
-  $\triangle \rightarrow 2 \text{ tane}$
 $\square \rightarrow 3 \text{ tane}$
 $\bigcirc \rightarrow 2 \text{ tane} \Rightarrow C = 2$
- $\Rightarrow A + B + C = 1 + 3 + 2 = 6$

Cevap: D

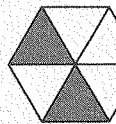
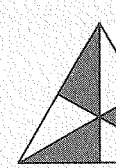
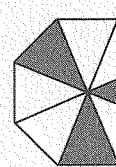
2.  Köşe $\rightarrow 8 \text{ tane}$
 Yüzey $\rightarrow 6 \text{ tane}$
 Ayırıt $\rightarrow 12 \text{ tane} \Rightarrow K = 12$
-  Köşe $\rightarrow 6 \text{ tane}$
 Yüzey $\rightarrow 5 \text{ tane} \Rightarrow L = 5$
 Ayırıt $\rightarrow 9 \text{ tane}$
-  Köşe $\rightarrow 10 \text{ tane} \Rightarrow M = 10$
 Yüzey $\rightarrow 7 \text{ tane}$
 Ayırıt $\rightarrow 15 \text{ tane}$
- $\Rightarrow K + L + M = 12 + 5 + 10 = 27$

Cevap: E

3. I.  +  = 
- II.  +  = 
- III.  +  = 

- i) Şekiller üst üste konuluyor. Taralı bölgeler üst üste gelirse siliniyor.
- ii) İki taralı olmayan bölge üst üste gelirse, taralı olmayan bölgeye, biri taralı diğeri taralı olmayan bölge üst üste gelirse taralı bölgeye dönüşüyor.

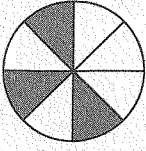
Cevap: D

4. I.  $\Rightarrow (\text{Taralı bölge sayısı}) \times (\text{Taralı olmayan bölge sayısı}) = 2.4 = 8$
- II.  $\Rightarrow 3.3 = 9$
- III.  $\Rightarrow 3.5 = 15$

Cevap: C

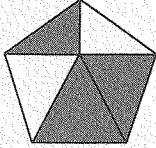
TEST - 5 ÇÖZÜMLER

5. I.



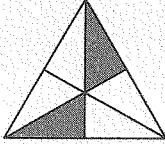
$$\frac{\text{Taralı dilim sayısı}}{\text{Tüm dilim sayısı}} + \text{Taralı olmayan dilim sayısı} = \frac{3}{8} + 5$$

II.



$$\rightarrow \frac{3}{5} + 2 = \frac{13}{2}$$

III.

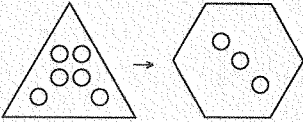


$$\rightarrow \frac{2}{6} + 4 = \frac{1}{3} + 4 = \frac{13}{3}$$

Cevap: C

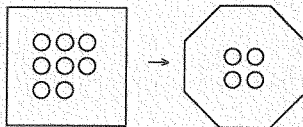
TASARI AKADEMİ YAYINLARI

6. I.



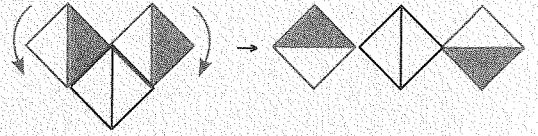
Kenar sayısı
iki katına
çıkılmış, daire
sayısı yarıya
inmiş.

II.

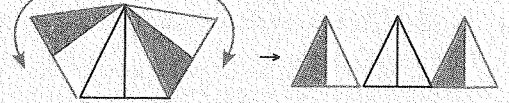


Cevap: A

7. I.

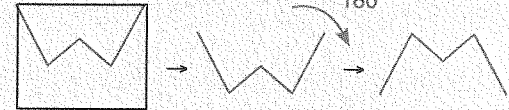


II.

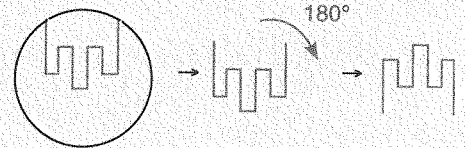


Cevap: A

8. I.

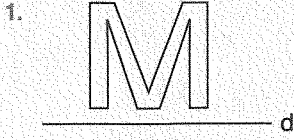


II.

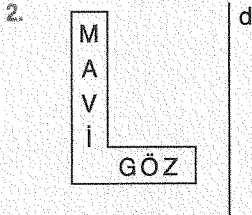
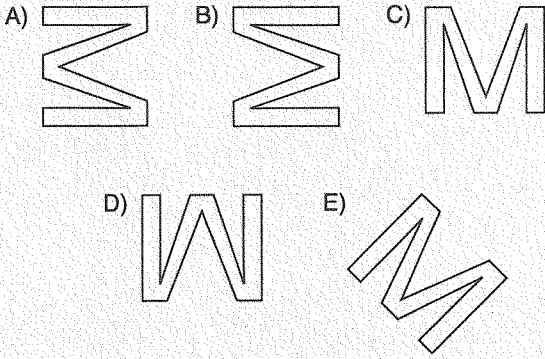


Cevap: C

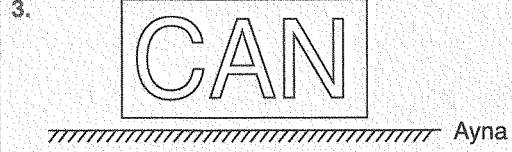
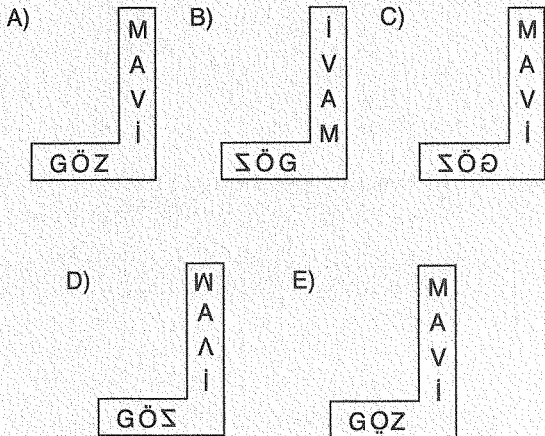
TEST - 6



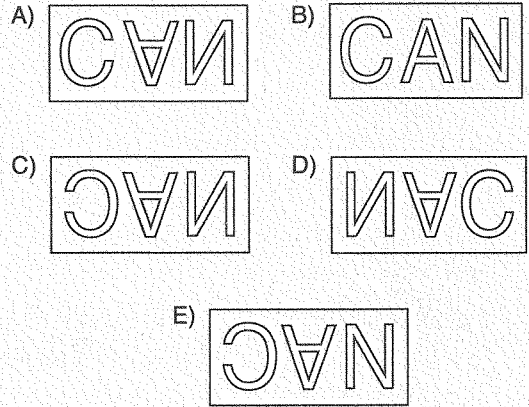
Verilen şeklin d doğrusuna göre simetriği aşağıdakilerden hangisidir?



Verilen şeklin d doğrusuna göre simetriği aşağıdakilerden hangisidir?



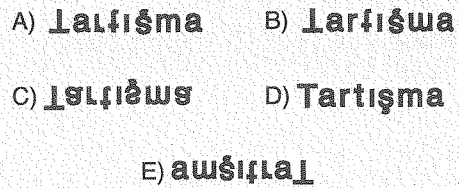
Verilen şeklin aynadaki görüntüsü aşağıdakilerden hangisidir?



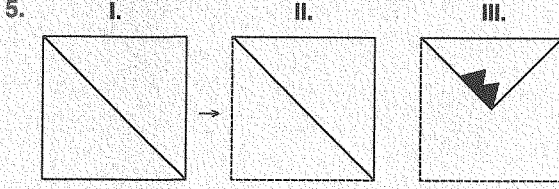
TASARI AKADEMİ YAYINLARI



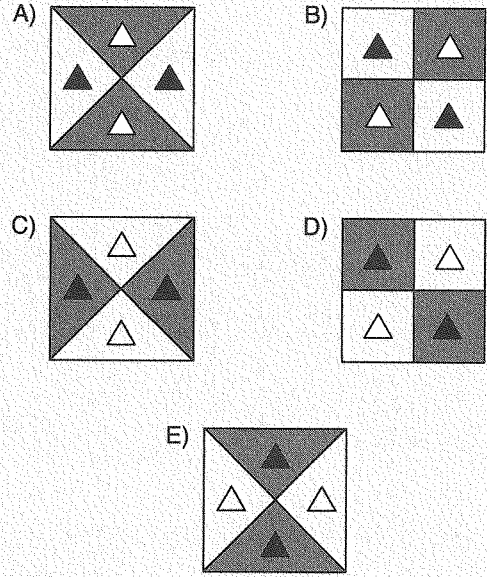
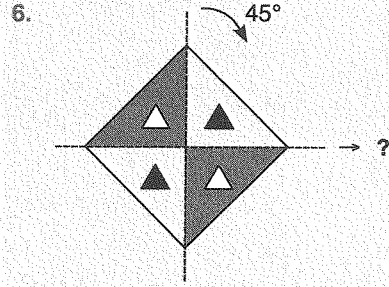
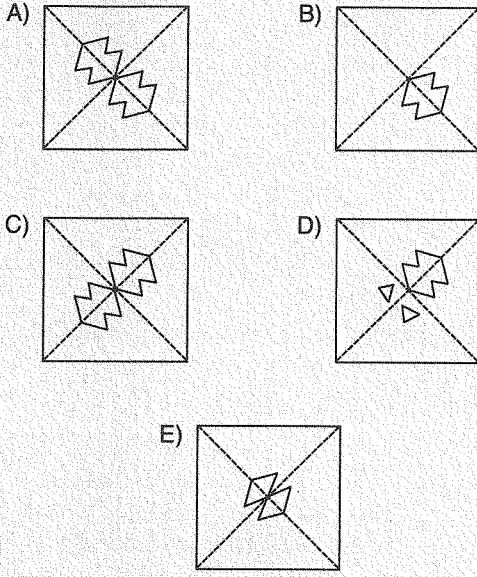
Verilen kelimenin aynadaki görüntüsü aşağıdakilerden hangisidir?



TEST - 6

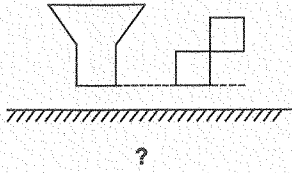


Kare şeklindeki kağıt şekildeki gibi iki kere katlandıktan sonra boyalı yerlerden kesilip açılırsa aşağıdaki şekillerden hangisi elde edilir?



TEST - 6

7.



A)



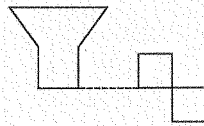
B)



C)



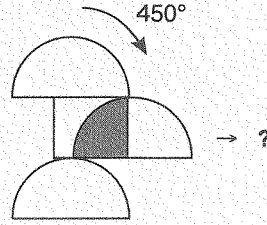
D)



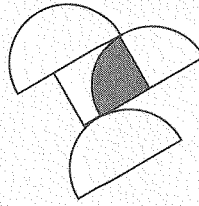
E)



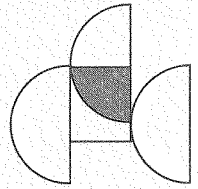
8.



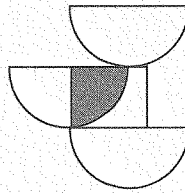
A)



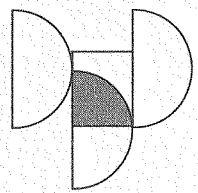
B)



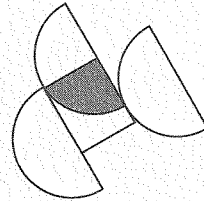
C)



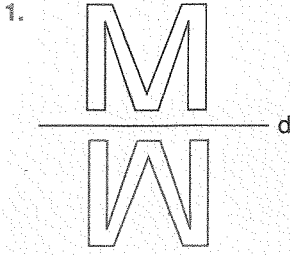
D)



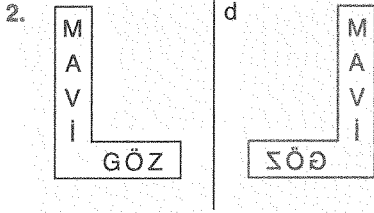
E)



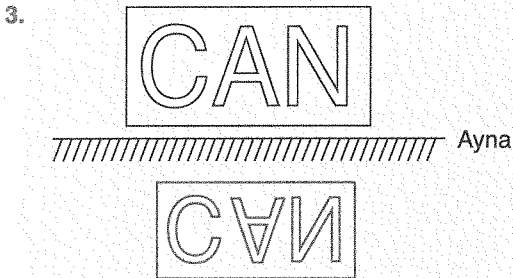
TEST - 6 ÇÖZÜMLER



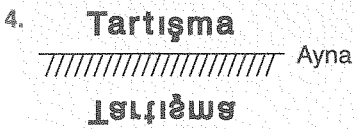
Cevap: D



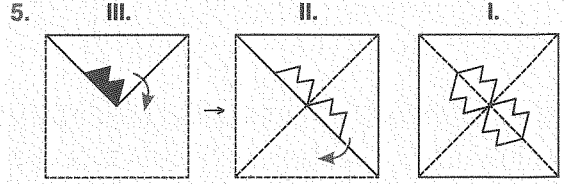
Cevap: C



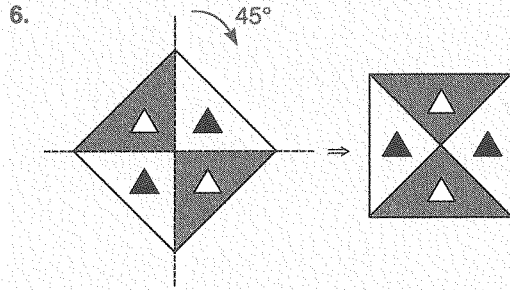
Cevap: A



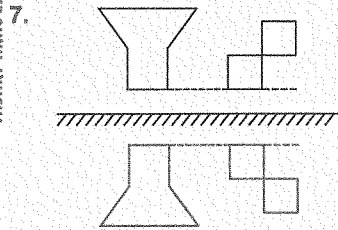
Cevap: C



Cevap: A

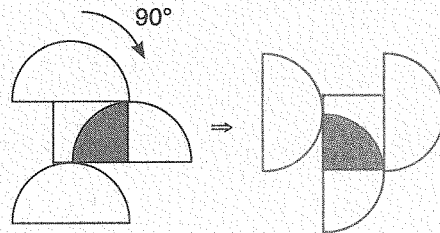


Cevap: A



Cevap: B

8. 450° içindeki tam tur yani 360° yi atarsak;
 $450^\circ - 360^\circ = 90^\circ$ döndürmek yeterlidir.



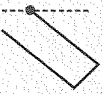
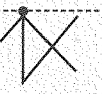
Cevap: D

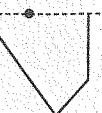
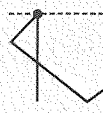
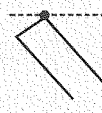
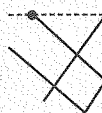
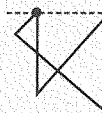


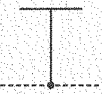
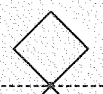
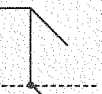
ŞEKİL TAMAMLAMA

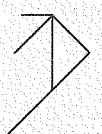
(FIGURE COMPLETION)

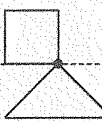
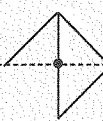
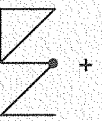
TEST - 1

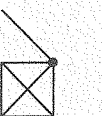
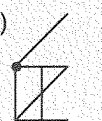
1.  +  =  + ?

- A)  B)  C) 
- D)  E) 

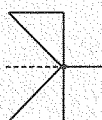
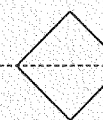
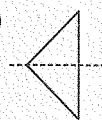
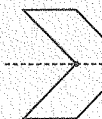
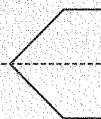
3.  +  =  + ?

- A)  B)  C) 
- D)  E) 

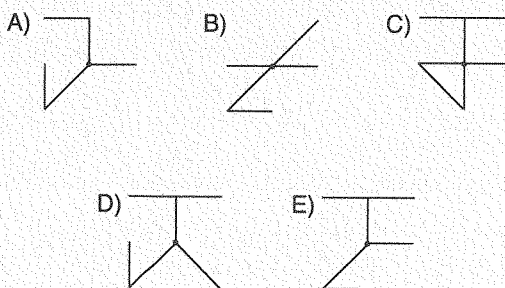
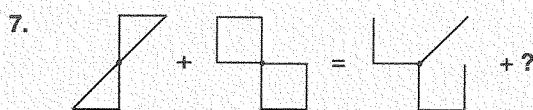
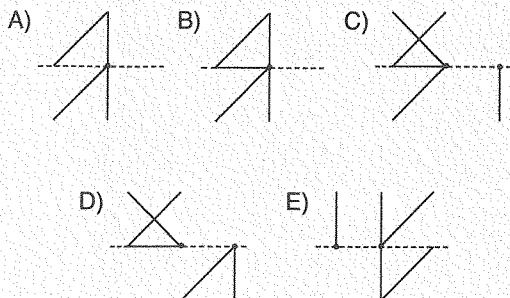
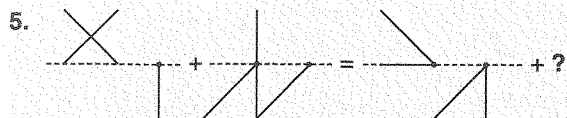
2.  +  =  + ?

- A)  B)  C) 
- D)  E) 

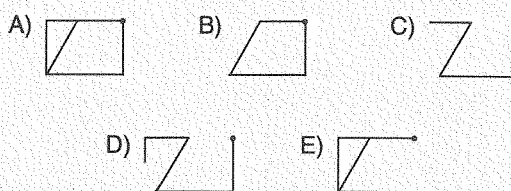
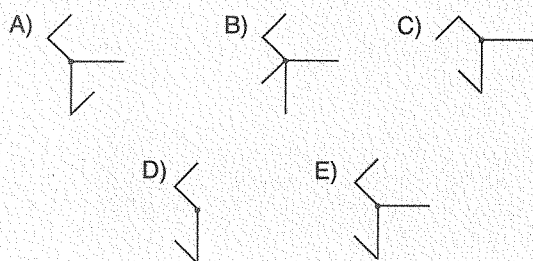
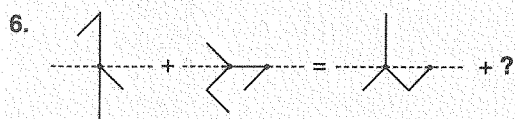
4.  +  =  + ?

- A)  B)  C) 
- D)  E) 

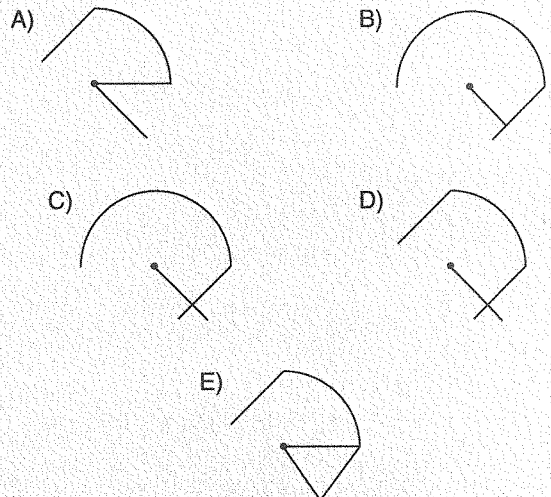
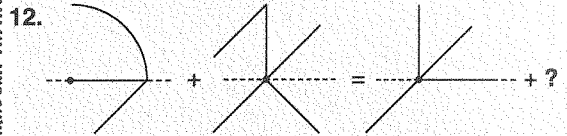
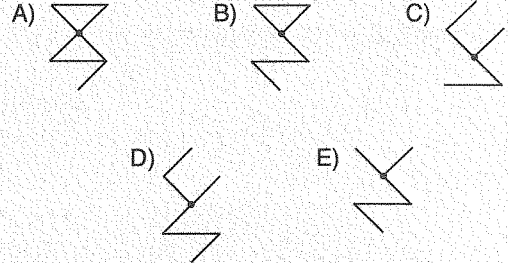
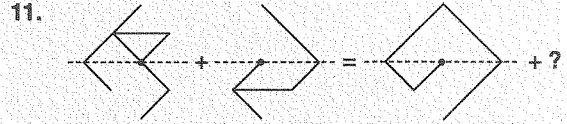
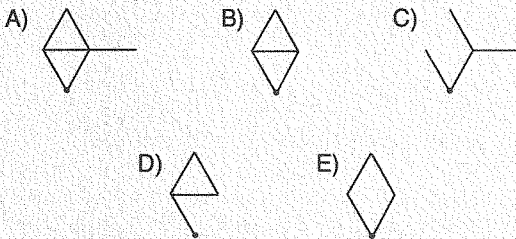
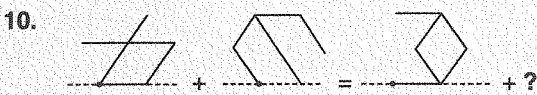
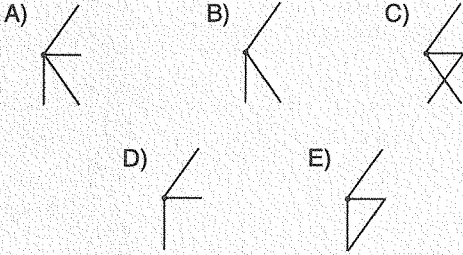
TEST - 1



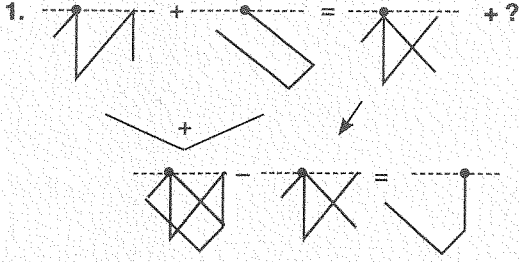
TASARI AKADEMİ YAYINLARI



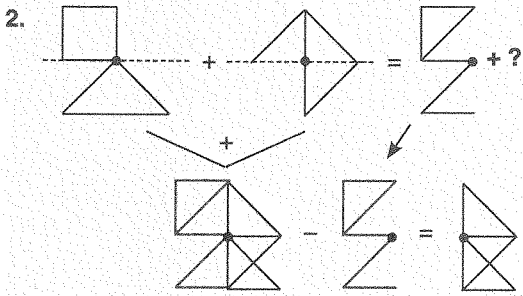
TEST - 1



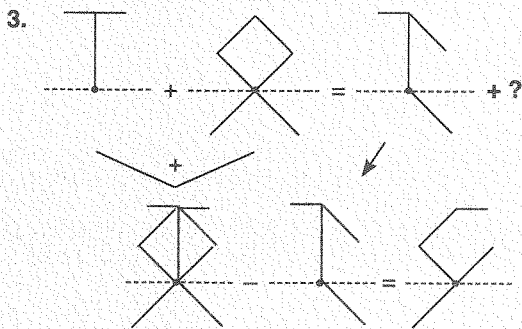
TEST - 1 ÇÖZÜMLER



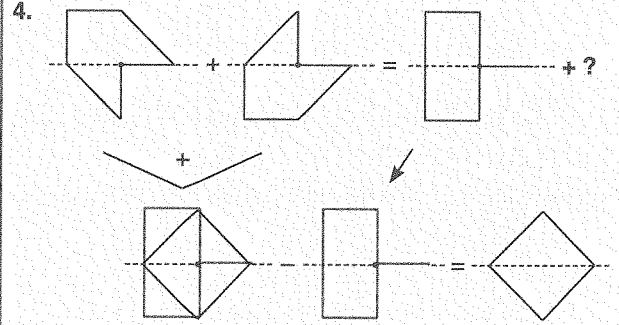
Cevap: A



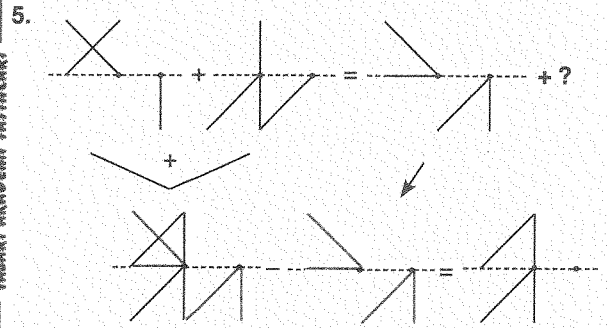
Cevap: B



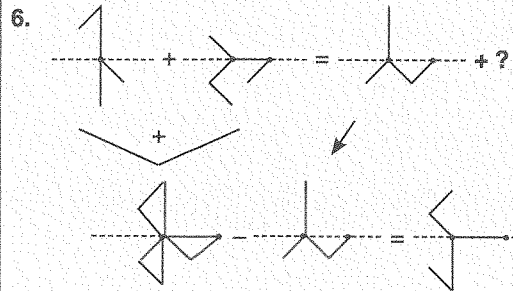
Cevap: C



Cevap: B

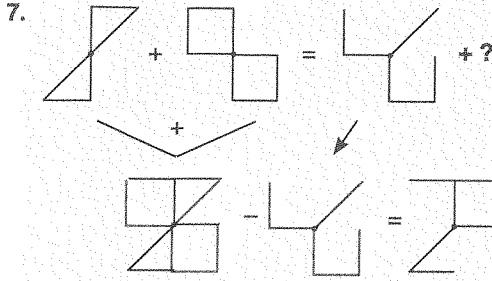


Cevap: A

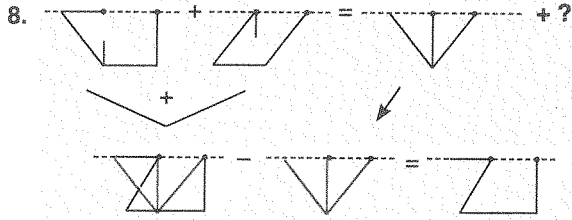


Cevap: E

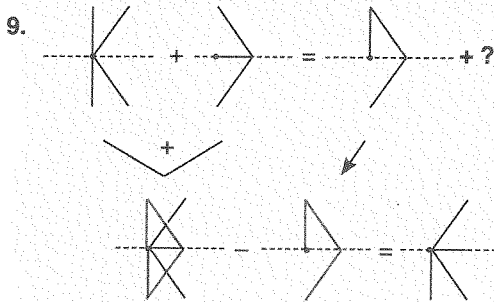
TEST - 1 ÇÖZÜMLER



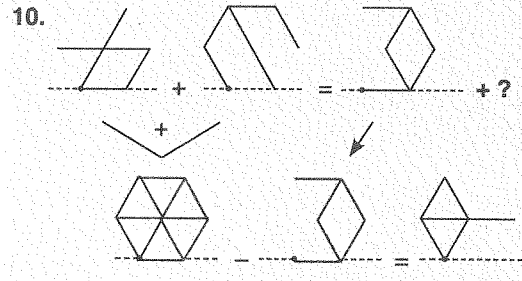
Cevap: E



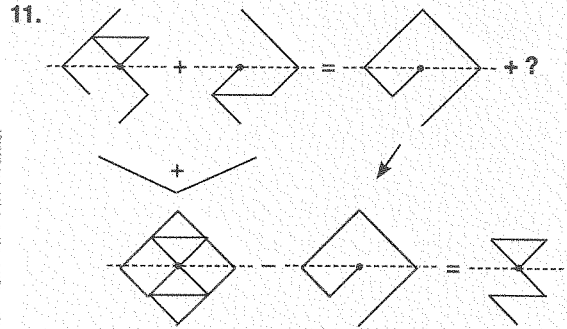
Cevap: C



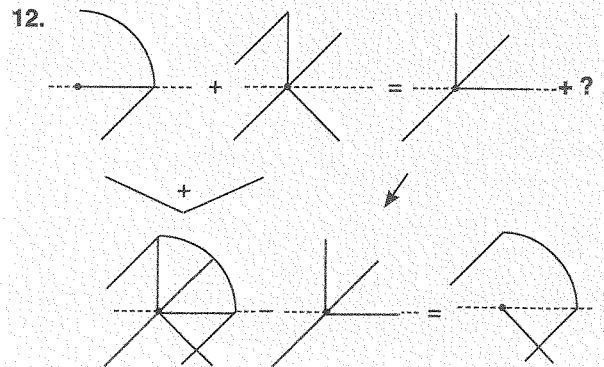
Cevap: A



Cevap: A



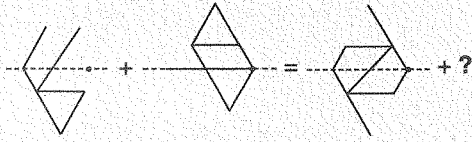
Cevap: B



Cevap: D

TEST - 2

1.



A)



B)



C)



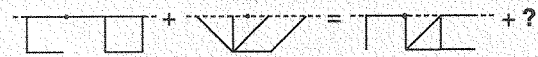
D)



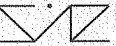
E)



2.



A)



B)



C)



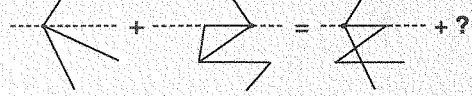
D)



E)



3.



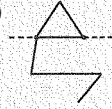
A)



B)



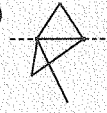
C)



D)



E)



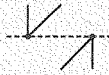
4.



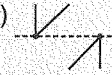
A)



B)



C)



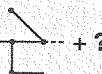
D)

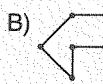
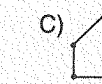
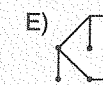


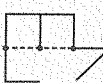
E)

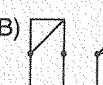
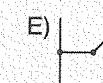


TEST - 2

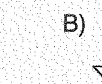
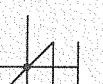
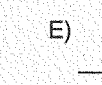
5.  +  =  + ?

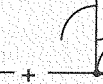
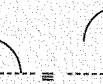
- A)  B)  C) 
- D)  E) 

6.  +  =  + ?

- A)  B)  C) 
- D)  E) 

7.  +  =  + ?

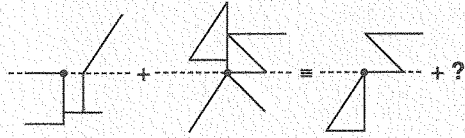
- A)  B)  C) 
- D)  E) 

8.  +  =  + ?

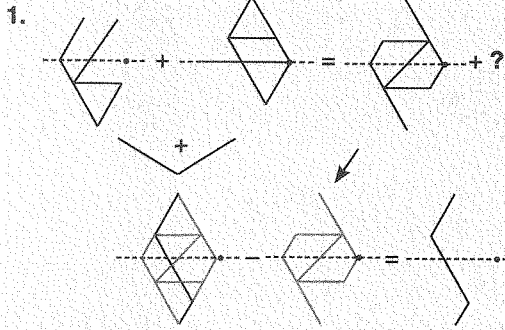
- A)  B)  C) 
- D)  E) 

TEST - 2

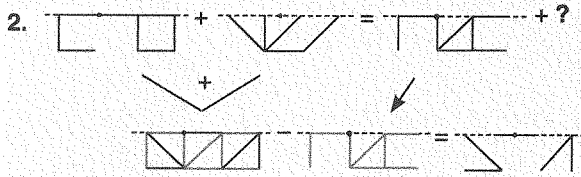
9.



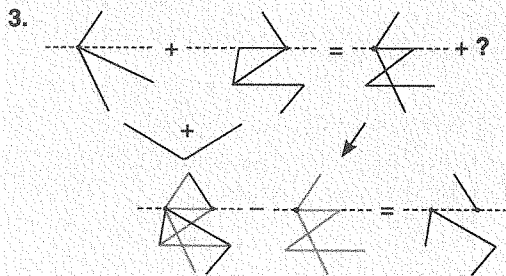
TEST - 2 ÇÖZÜMLER



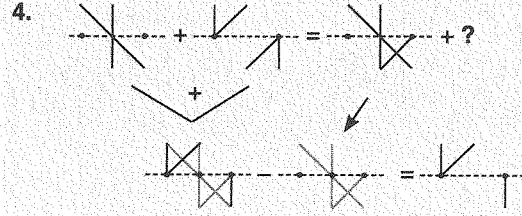
Cevap: C



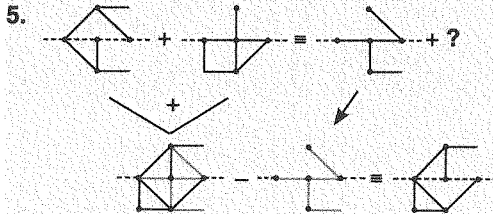
Cevap: C



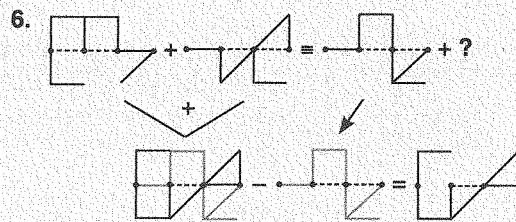
Cevap: B



Cevap: E

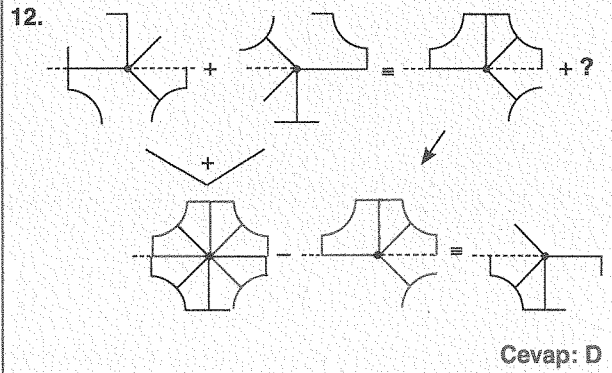
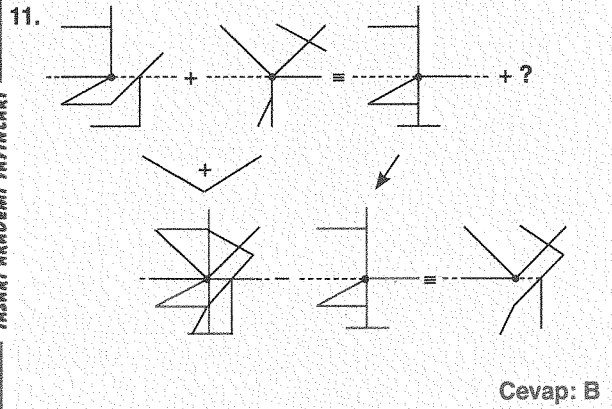
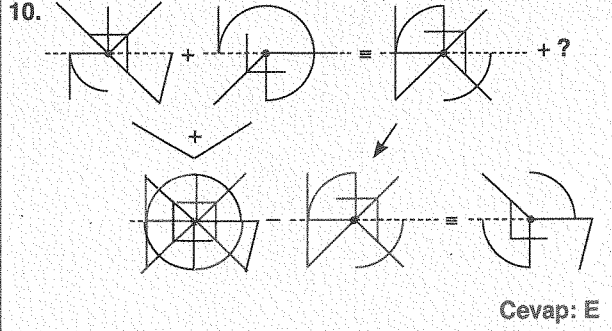
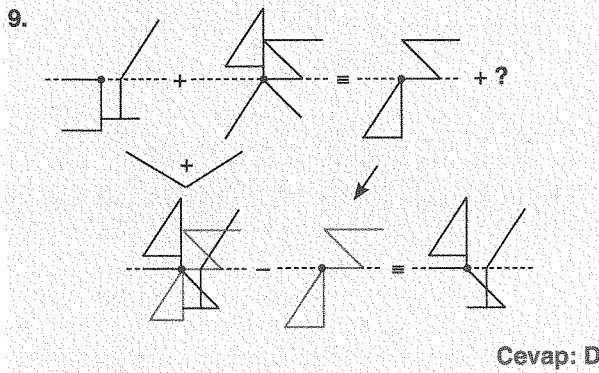
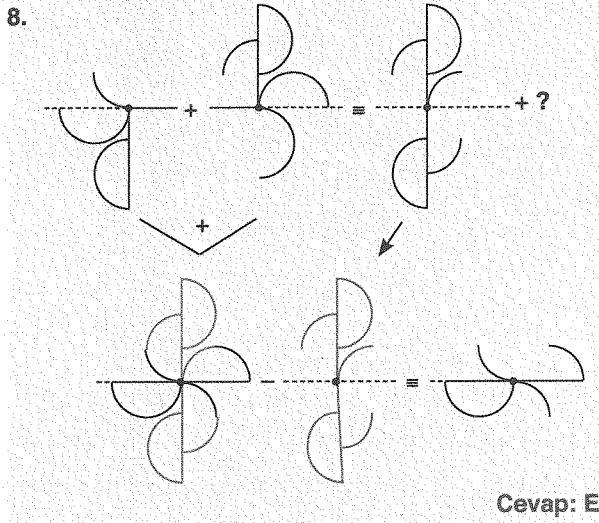
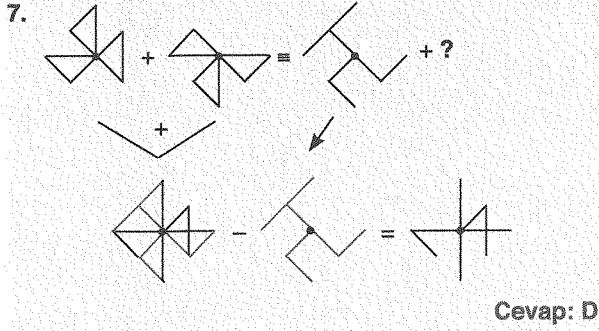


Cevap: D

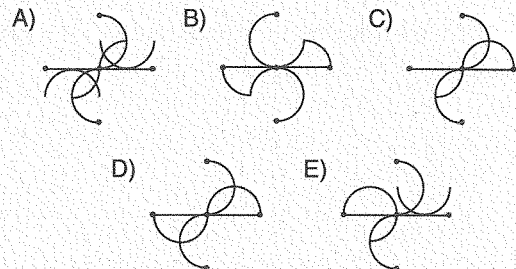
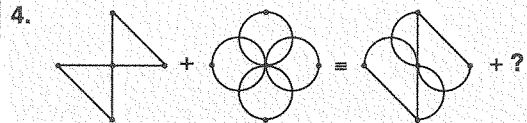
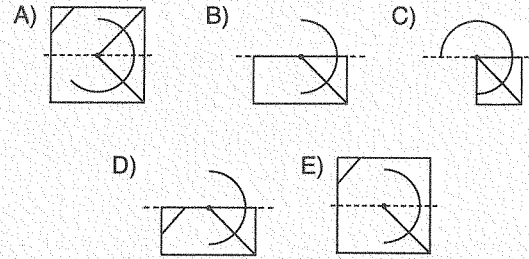
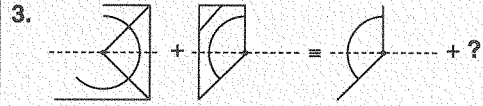
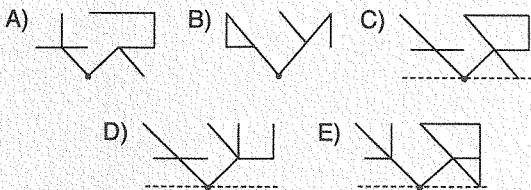
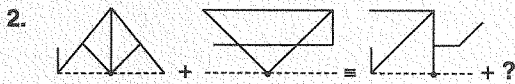
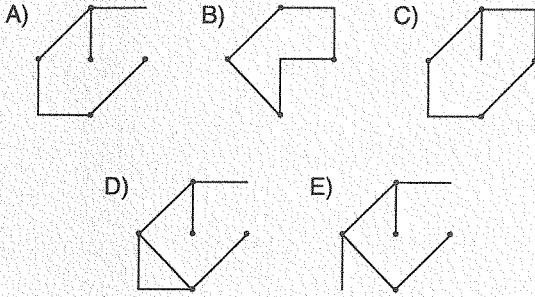
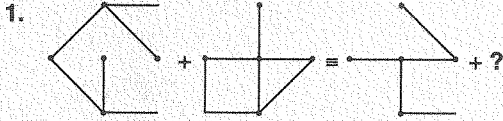


Cevap: A

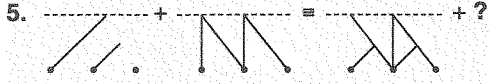
TEST - 2 ÇÖZÜMLER

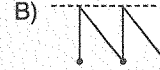
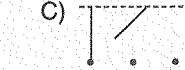
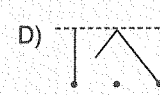
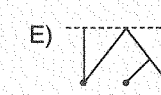


TEST - 3



TEST - 3

5. 

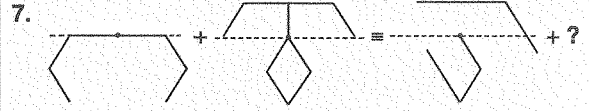
- A)  B)  C) 
 D)  E) 

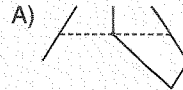
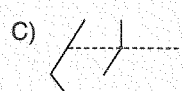
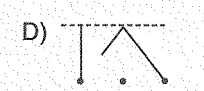
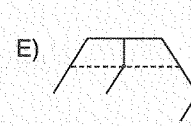
6. I. 

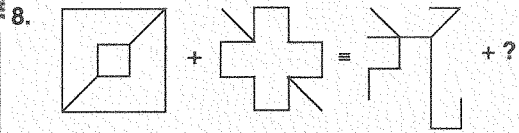
II. 

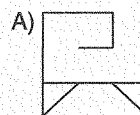
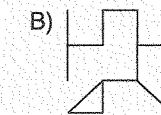
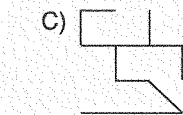
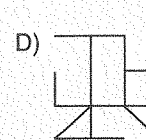
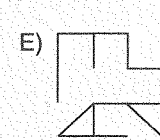
I. satırda belirlenen ilişkiye göre, II. satırı aşağıdakilerden hangisi tamamlar?

- A)  B)  C) 
 D)  E) 

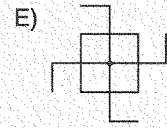
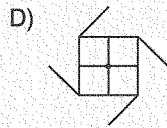
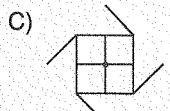
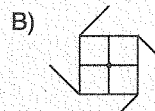
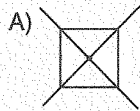
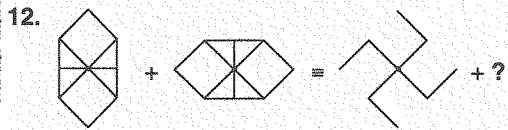
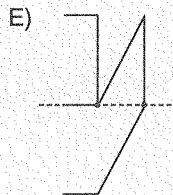
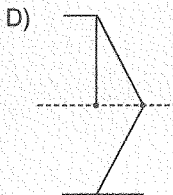
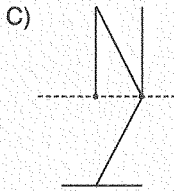
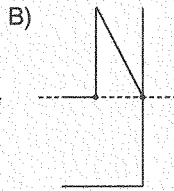
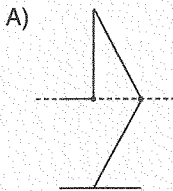
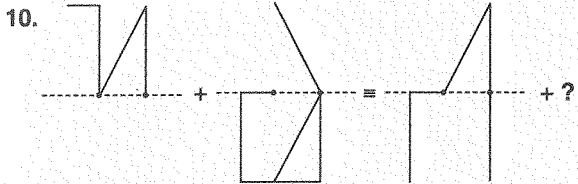
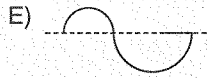
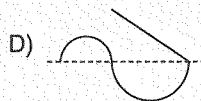
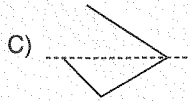
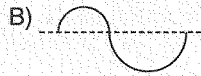
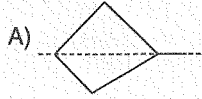
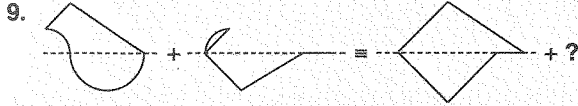
7. 

- A)  B) 
 C)  D) 
 E) 

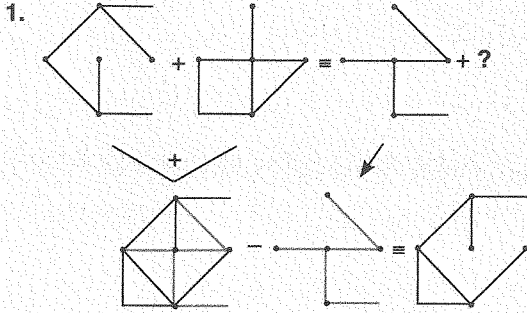
8. 

- A)  B)  C) 
 D)  E) 

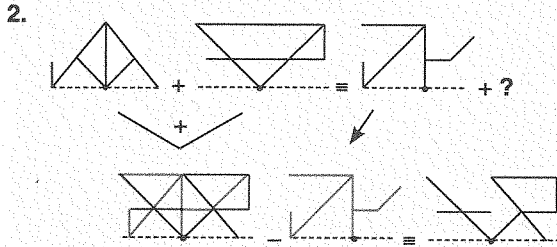
TEST - 3



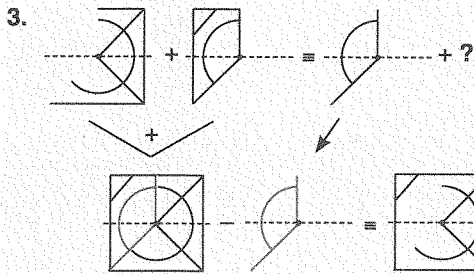
TEST - 3 ÇÖZÜMLER



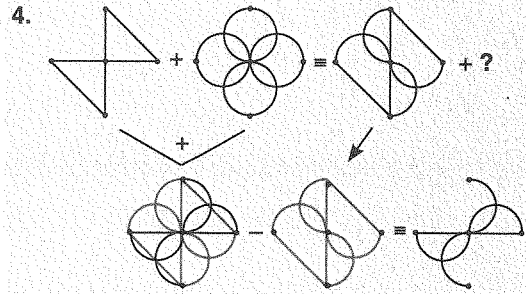
Cevap: D



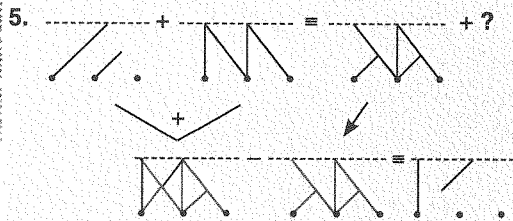
Cevap: C



Cevap: A



Cevap: D

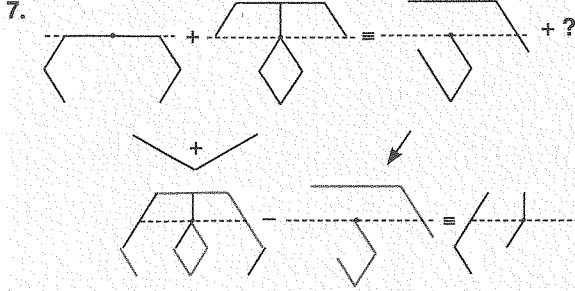


Cevap: C

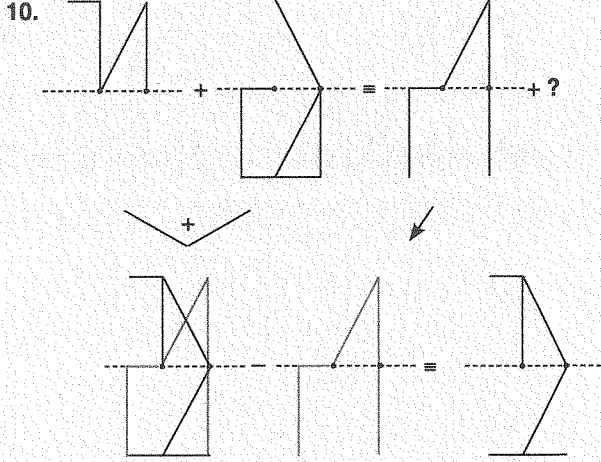


Cevap: B

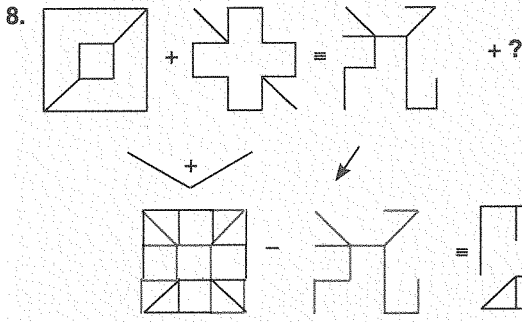
TEST - 3 ÇÖZÜMLER



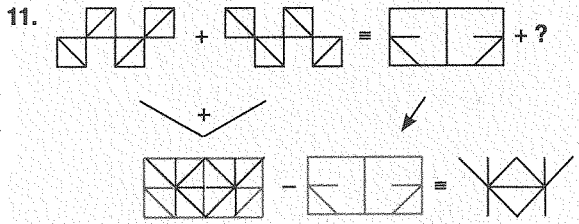
Cevap: C



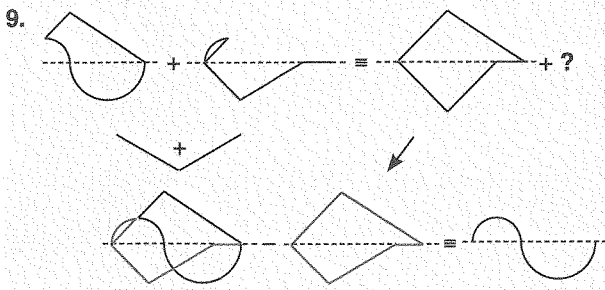
Cevap: D



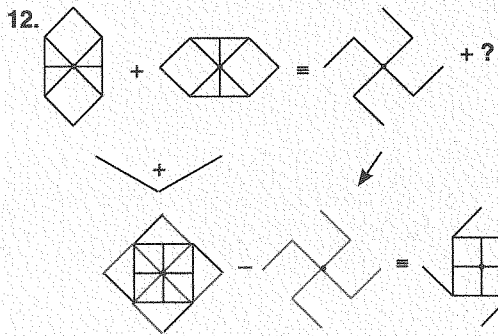
Cevap: E



Cevap: A



Cevap: B

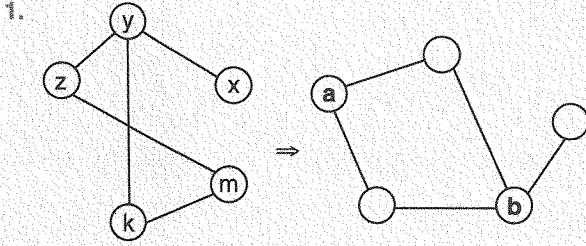


Cevap: B



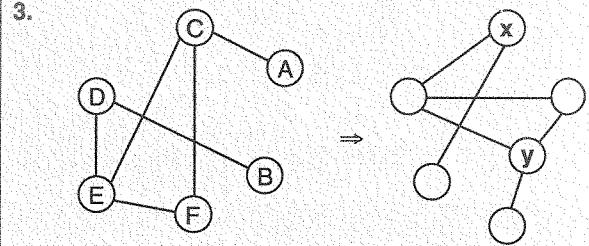
EŞLEŞTİRME (MATCHING)

TEST - 1



a ve b nin yerine gelmesi gereken harfleri bulunuz.

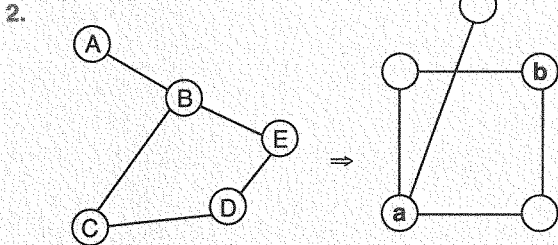
a	b
A) y	m
B) x	y
C) k	y
D) z	y
E) m	y



x ve y nin yerine gelmesi gereken harfleri bulunuz.

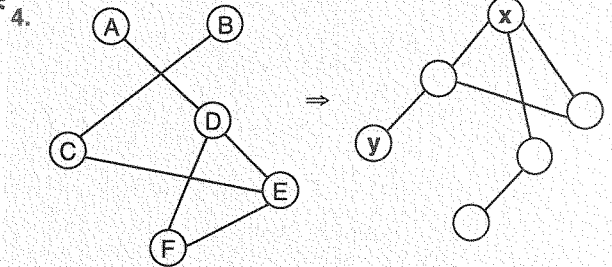
x	y
A) D	B
B) D	F
C) D	C
D) C	D
E) C	E

TASARI AKADEMİ YAYINLARI



a ve b nin yerine gelmesi gereken harfleri bulunuz.

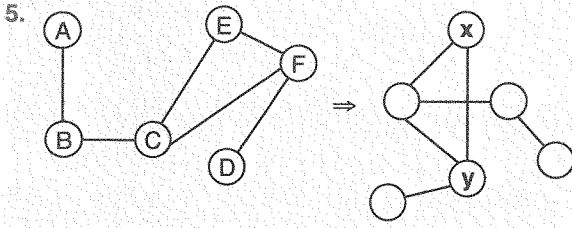
a	b
A) B	E
B) B	D
C) B	C
D) B	D
E) C	B



x ve y nin yerine gelmesi gereken harfleri bulunuz.

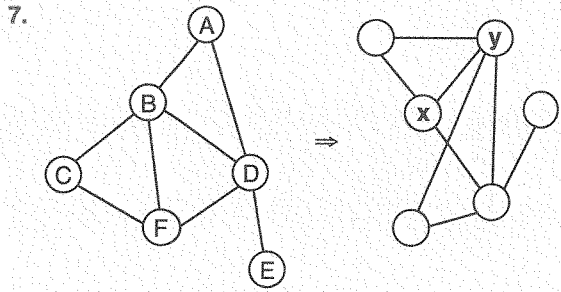
x	y
A) E	B
B) E	F
C) C	A
D) E	A
E) E	C

TEST - 1



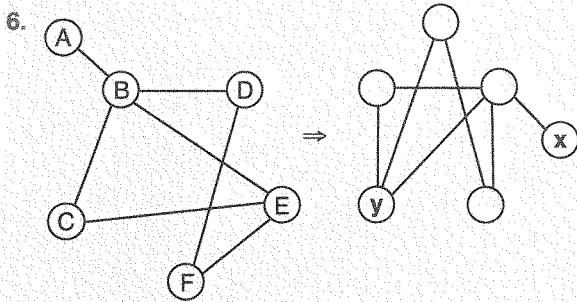
x ve y nin yerine gelmesi gereken harfleri bulunuz.

x	y
A) E	F
B) E	C
C) E	B
D) F	E
E) F	C



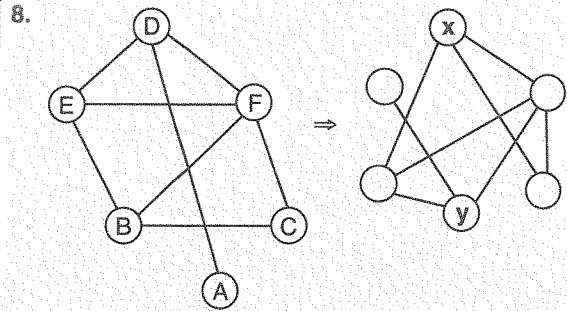
x = ? , y = ?

x	y
A) F	A
B) F	B
C) B	F
D) A	F
E) C	F



x = ? , y = ?

x	y
A) A	B
B) A	C
C) A	D
D) A	E
E) A	F

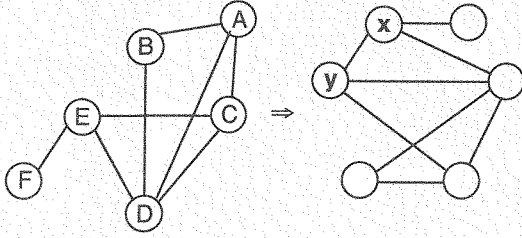


x = ? , y = ?

x	y
A) D	F
B) B	F
C) B	D
D) B	F
E) B	B

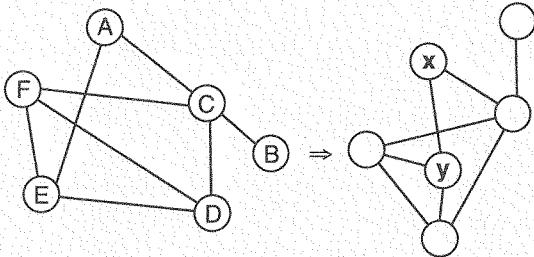
TEST - 1

9.

 $x = ? , y = ?$

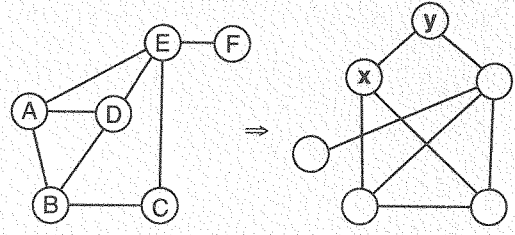
x	y
A) E	A
B) E	F
C) C	E
D) E	D
E) E	C

10.

 $x = ? , y = ?$

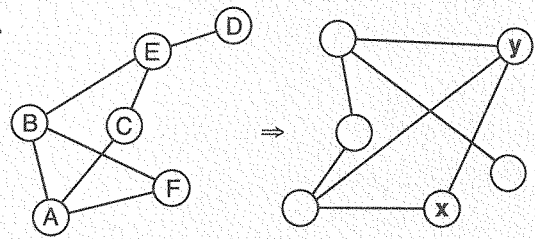
x	y
A) A	C
B) A	E
C) E	A
D) C	A
E) A	F

11.

 $x = ? , y = ?$

x	y
A) A	B
B) C	B
C) B	A
D) B	D
E) B	C

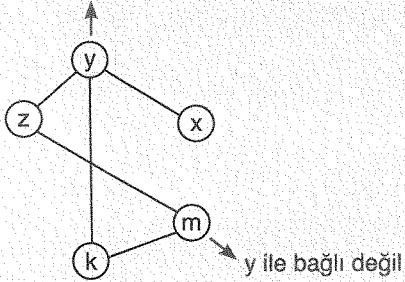
12.

 $x = ? , y = ?$

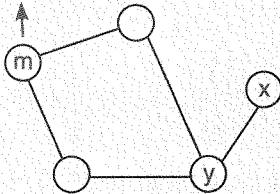
x	y
A) F	B
B) F	C
C) F	A
D) C	F
E) C	B

TEST - 1 ÇÖZÜMLER

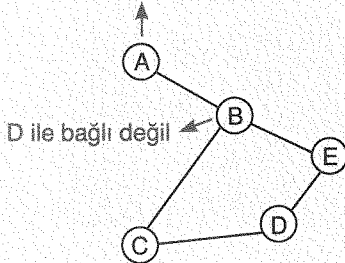
1. x , z ve k ile bağlı



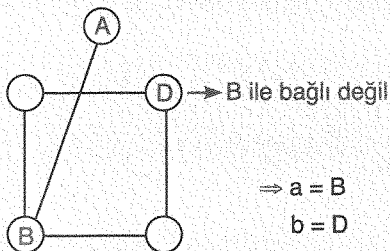
y ile bağlı değil


$$\Rightarrow \begin{matrix} a = m \\ b = y \end{matrix}$$

2. Sadece B ile bağlı



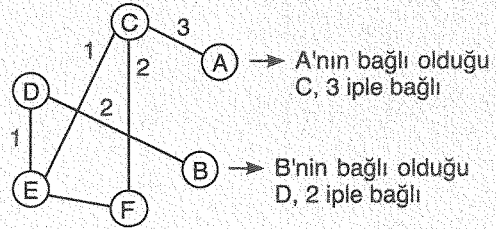
D ile bağı değil


$$\Rightarrow a = B$$
$$b = D$$

Cevap: E

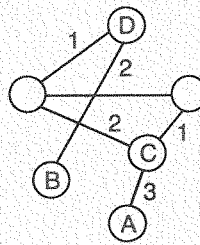
Cevap: B

3.



- A'nın bağlı olduğu
C, 3 iple bağlı

B'nin bağlı olduğu
D, 2 iple bağlı



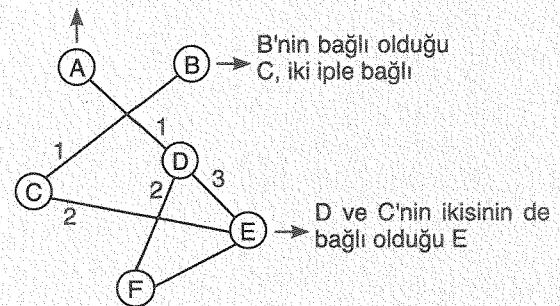
O halde $x = D$, $y = C$

Cevap: C

TASARI AKADEMİ YAYINLARI

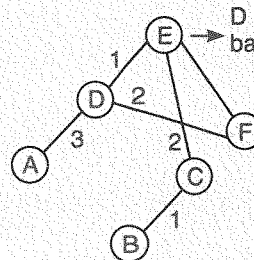
4.

A'nın bağlı olduğu
D, üç iple bağlı



B'nin bağlı olduğu
C, iki iple bağlı

D ve C'nin ikisinin de
bağlı olduğu E



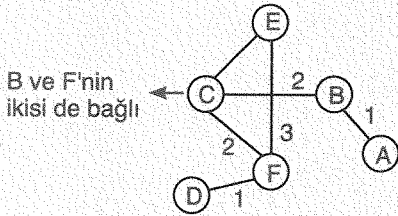
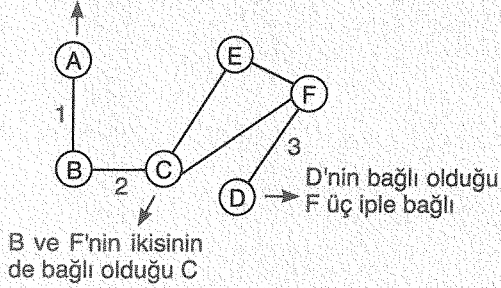
D ve C'nin ikisinin de
bağlı olduğu hücre

O halde $x = E$, $y = A$

Cevap: D

TEST - 1 ÇÖZÜMLER

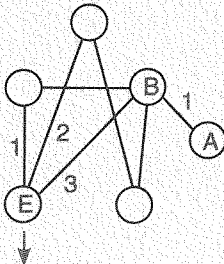
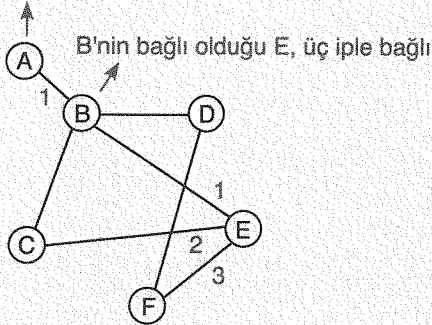
5. A'nın bağlı olduğu B, iki iple bağlı



O halde $x = E$, $y = F$

Cevap: A

6. A bir iple B'ye bağlı

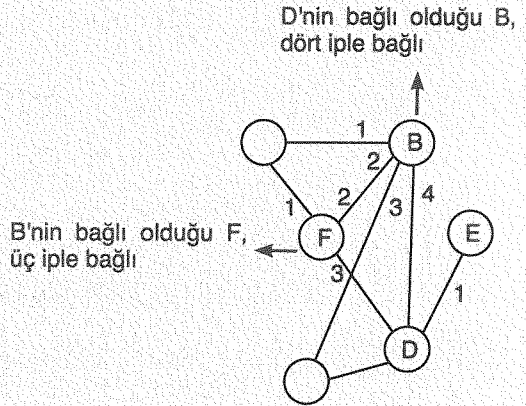
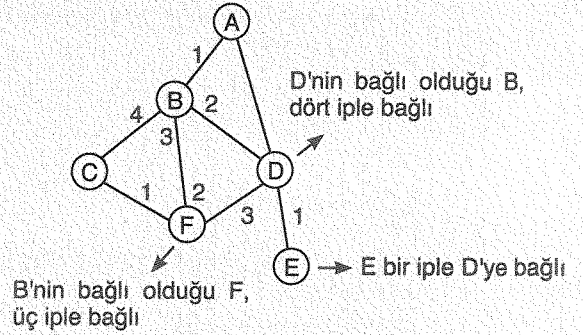


B'nin bağlı olduğu E, üç iple bağlı

O halde $x = A$, $y = E$

Cevap: D

- 7.



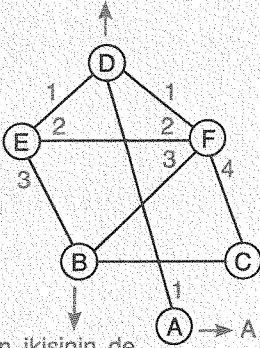
O halde $x = F$, $y = B$

Cevap: B

TEST - 1 ÇÖZÜMLER

8.

D'nin bağlı olduğu F dört iple bağlı;
E üç iple bağlı



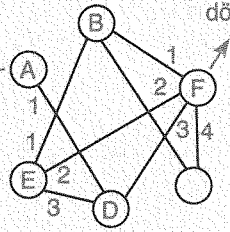
E ile F'nin ikisinin de bağlı olduğu B
A bir iple D'ye bağlı

E ile F'nin ikisinin de bağlı olduğu B

D'nin bağlı olduğu F dört iple bağlı

A bir iple D'ye bağlı

D'nin bağlı olduğu E üç iple bağlı

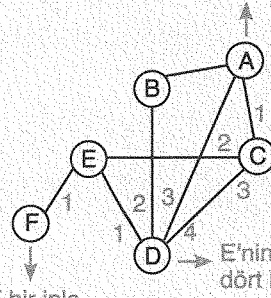


O halde $x = B$, $y = D$

Cevap: C

9.

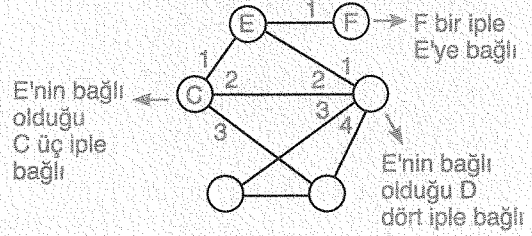
C ve D'nin ikisinin de bağlı olduğu A



F bir iple E'ye bağlı

E'nin bağlı olduğu C üç iple bağlı

E'nin bağlı olduğu D dört iple bağlı

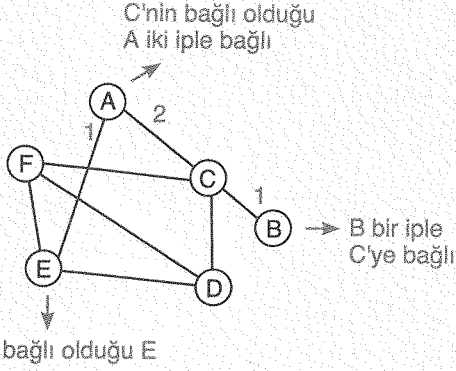


O halde $x = E$, $y = C$

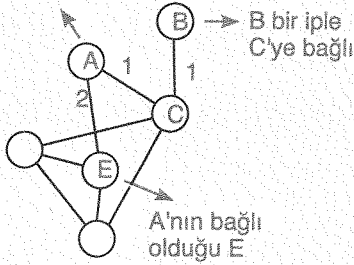
Cevap: E

TEST - 1 ÇÖZÜMLER

10.

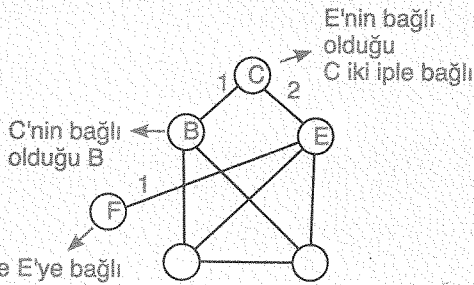
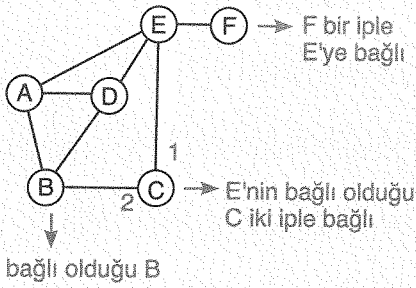


C'nin bağlı olduğu A iki iple bağlı

O halde $x = A$, $y = E$

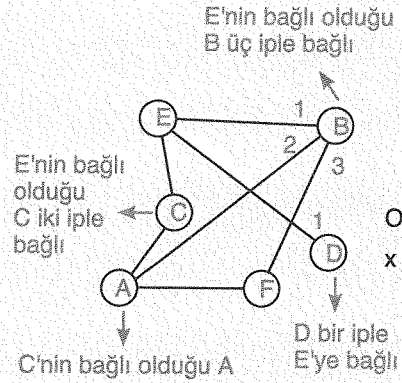
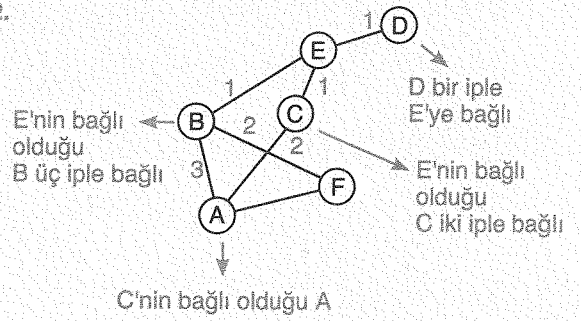
Cevap: B

11.

O halde $x = B$, $y = C$

Cevap: E

12.

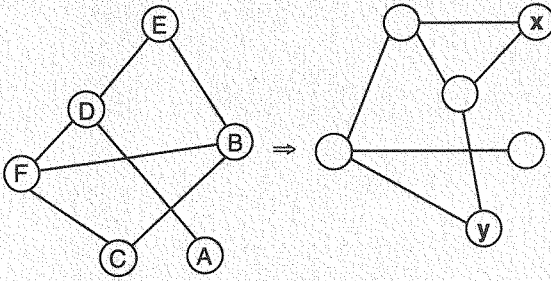


O halde
 $x = F$, $y = B$

Cevap: A

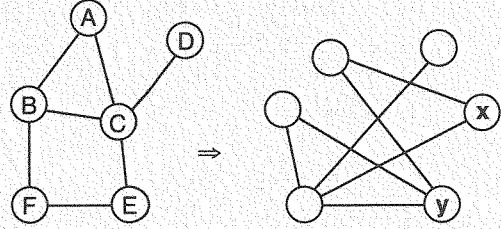
TEST - 2

1.

 $\Rightarrow x = ? , y = ?$

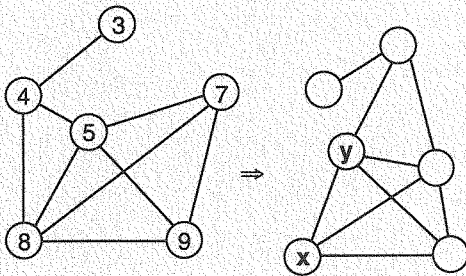
<u>x</u>	<u>y</u>
A) F	C
B) C	E
C) C	B
D) C	F
E) F	B

3.

 $\Rightarrow x = ? , y = ?$

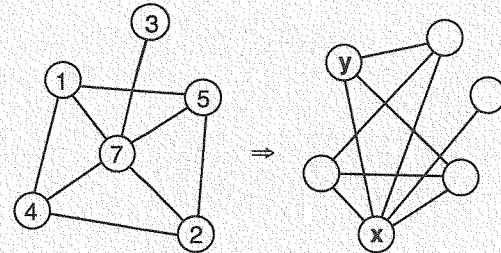
<u>x</u>	<u>y</u>
A) E	B
B) F	B
C) E	C
D) E	F
E) F	A

2.

 $\Rightarrow x = ? , y = ?$

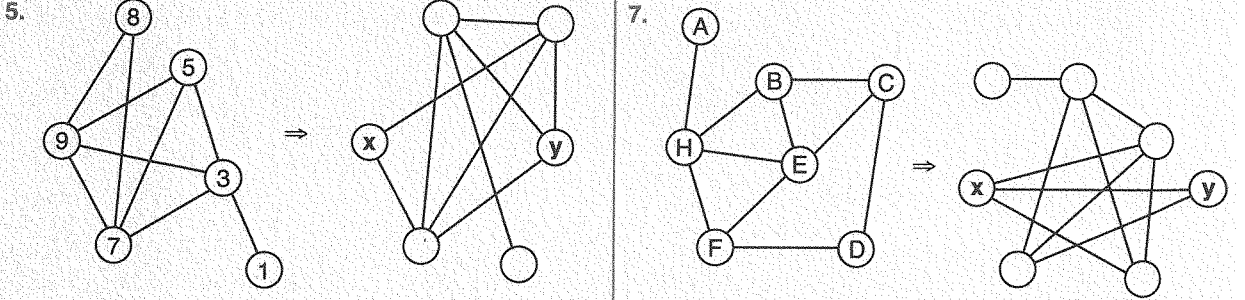
<u>x</u>	<u>y</u>
A) 5	7
B) 7	9
C) 7	5
D) 9	7
E) 8	5

4.

 $\Rightarrow x = ? , y = ?$

<u>x</u>	<u>y</u>
A) 7	1
B) 5	2
C) 4	2
D) 4	1
E) 5	1

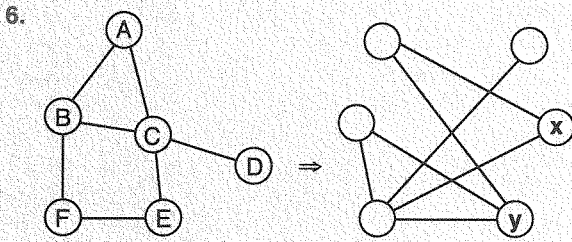
TEST - 2

 $\Rightarrow x = ? , y = ?$

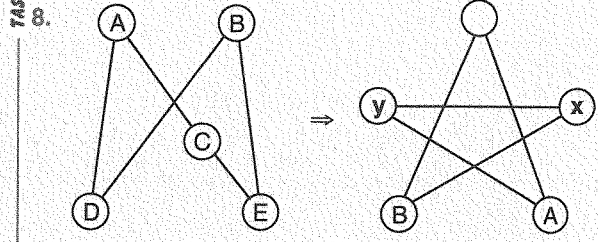
	<u>x</u>	<u>y</u>
A)	8	9
B)	8	3
C)	8	5
D)	5	8
E)	5	3

 $\Rightarrow x = ? , y = ?$

	<u>x</u>	<u>y</u>
A)	D	C
B)	B	E
C)	C	B
D)	C	D
E)	C	E

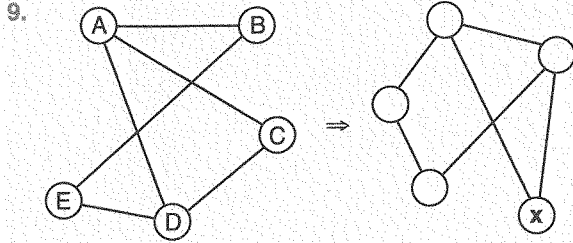
 $\Rightarrow x = ? , y = ?$

	<u>x</u>	<u>y</u>
A)	E	C
B)	E	B
C)	E	A
D)	B	E
E)	A	E

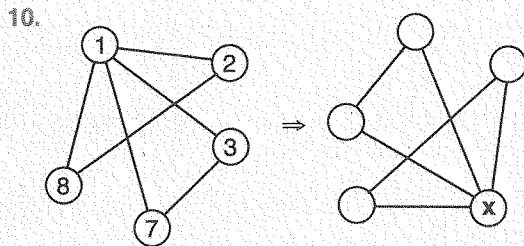
 $\Rightarrow x = ? , y = ?$

	<u>x</u>	<u>y</u>
A)	B	C
B)	D	E
C)	D	C
D)	C	E
E)	E	C

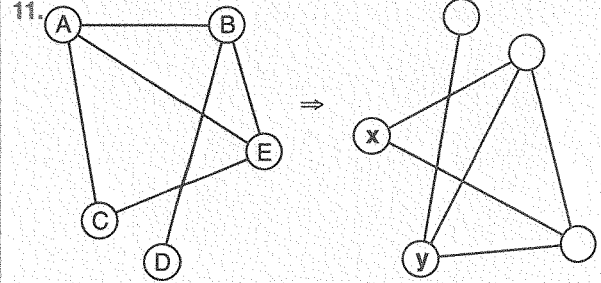
TEST - 2

 $\Rightarrow x = ?$

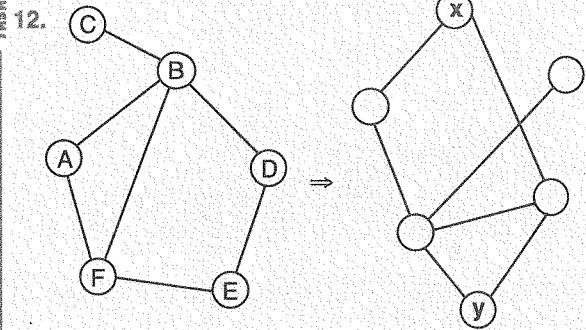
- A) E B) D C) C D) B E) A

 $\Rightarrow x = ?$

- A) 8 B) 7 C) 3 D) 2 E) 1

 $\Rightarrow x = ? , y = ?$

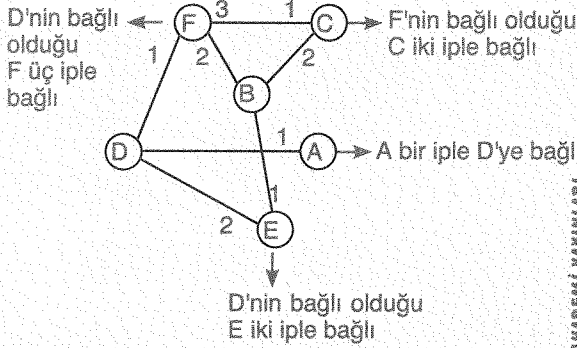
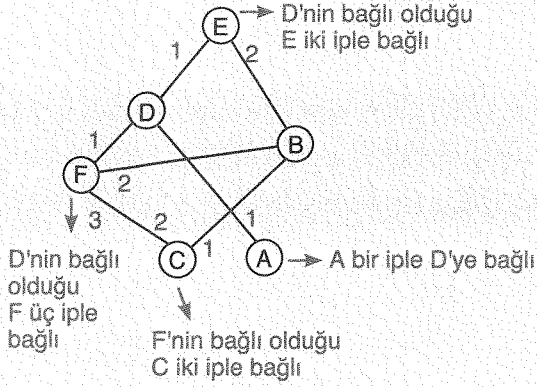
<u>x</u>	<u>y</u>
A) B	E
B) B	C
C) C	E
D) C	B
E) C	D

 $\Rightarrow x = ? , y = ?$

<u>x</u>	<u>y</u>
A) E	A
B) E	D
C) A	E
D) D	E
E) E	F

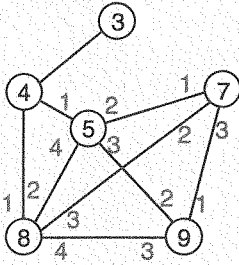
TEST - 2 ÇÖZÜMLER

1.

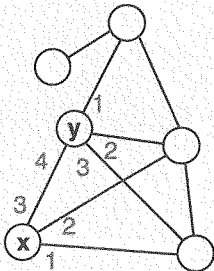
O halde $x = C$, $y = E$

Cevap: B

2.



- $7 \rightarrow$ Üç iple bağlı
 $9 \rightarrow$ Üç iple bağlı
 $8 \rightarrow$ Dört iple bağlı
 $5 \rightarrow$ Dört iple bağlı

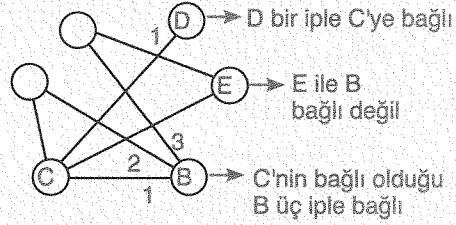
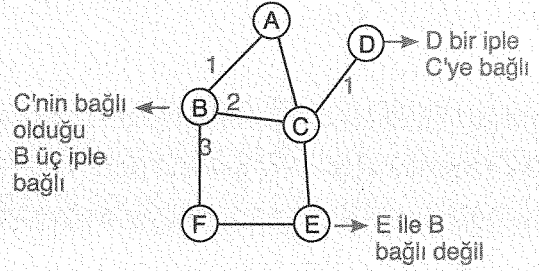


- $y \rightarrow$ Dört iple bağlı $\{8,5\}$
 $x \rightarrow$ Üç iple bağlı $\{7,9\}$

O halde $x = 7$, $y = 5$

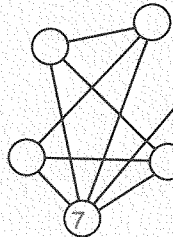
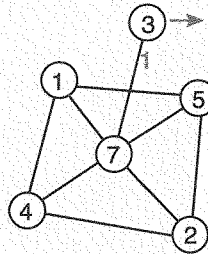
Cevap: C

3.

O halde $x = E$, $y = B$

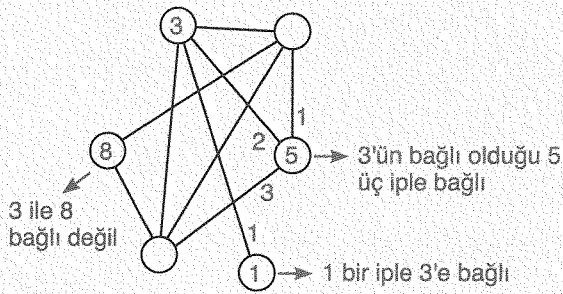
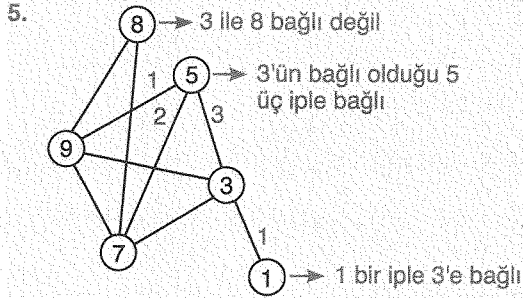
Cevap: A

4.

O halde $x = 7$, $y = 1$

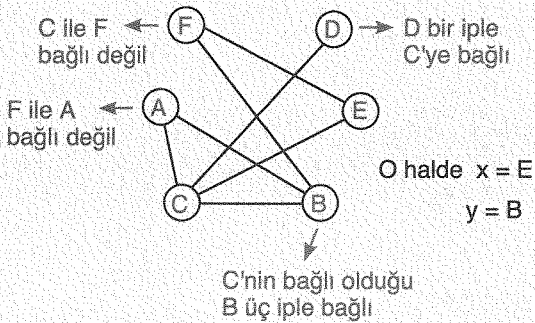
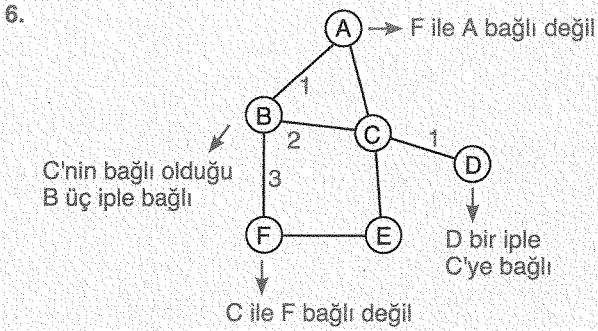
Cevap: A

TEST - 2 ÇÖZÜMLER



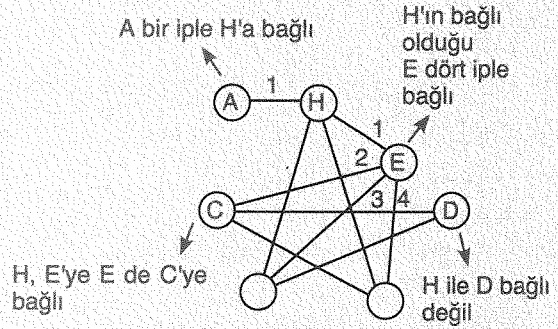
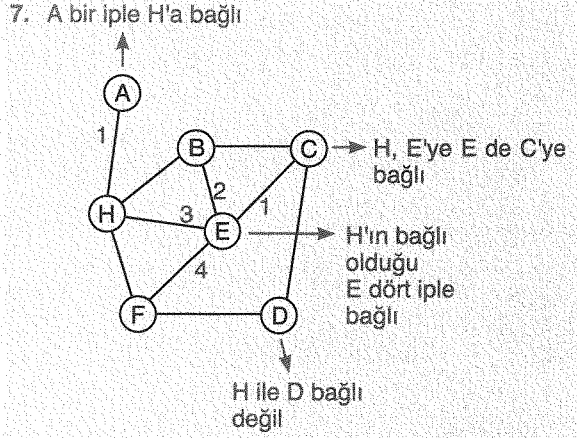
O halde $x = 8$, $y = 5$

Cevap: C



O halde $x = E$
 $y = B$

Cevap: B

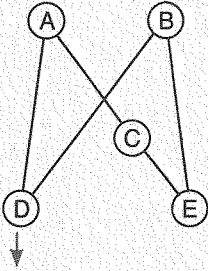


O halde $x = C$, $y = D$

Cevap: D

TEST - 2 ÇÖZÜMLER

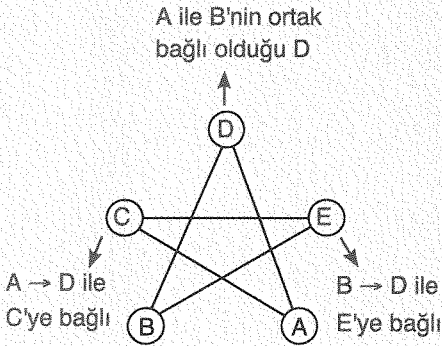
8.



A ile B'nin ortak
bağlı olduğu D

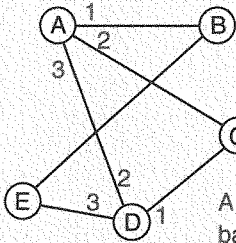
$A \rightarrow D$ ile C'ye bağlı
 $B \rightarrow D$ ile E'ye bağlı

A ile B'nin ortak
bağlı olduğu D



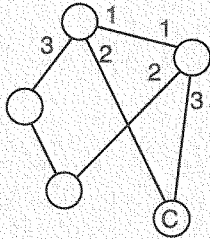
O halde $x = E$, $y = C$

9.



A ile D üçer iple
bağlı

A ile D'nin ortak
bağlı olduğu C



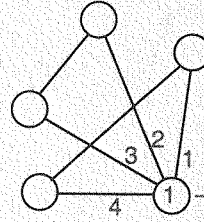
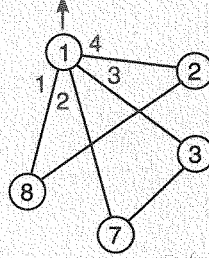
O halde $x = C$

A ile D'nin ortak
bağlı olduğu C

Cevap: E

Cevap: C

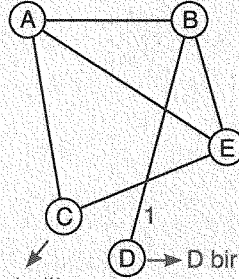
10. 1 dört iple bağlı



O halde $x = 1$

Cevap: E

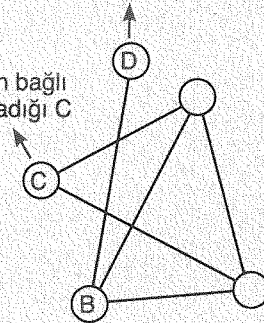
11.



B'nin bağlı
olmadığı C

D bir iple B'ye bağlı

B'nin bağlı
olmadığı C

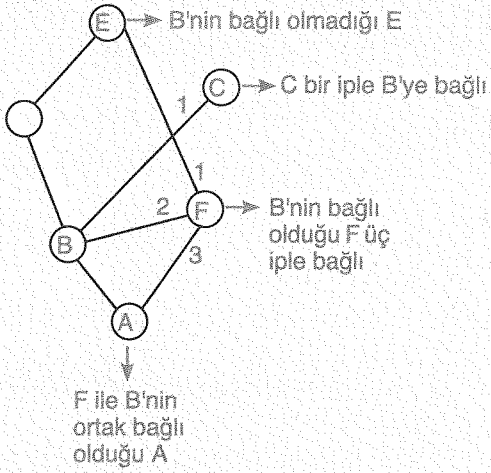
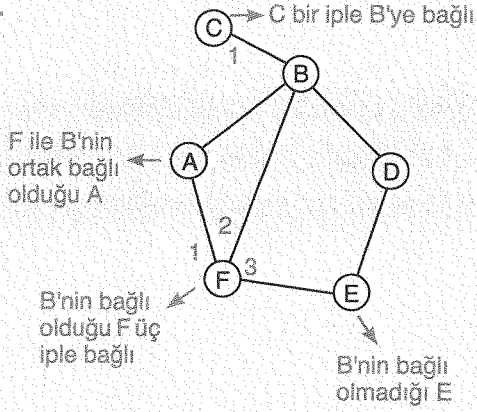


O halde $x = C$, $y = B$

Cevap: D

TEST - 2 ÇÖZÜMLER

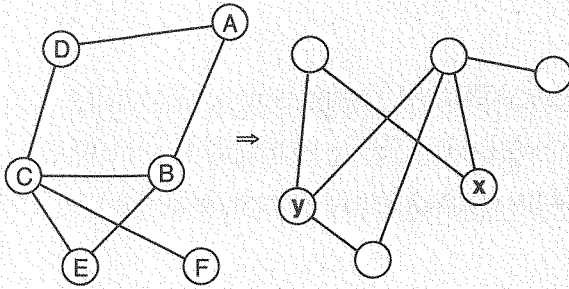
12.

O halde $x = E$, $y = A$

Cevap: A

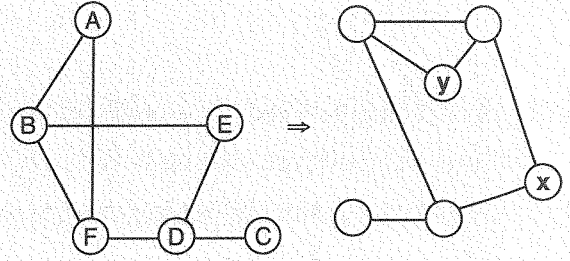
TASARI ANCEM YAYINLARI

TEST - 3


 $\Rightarrow x = ? , y = ?$

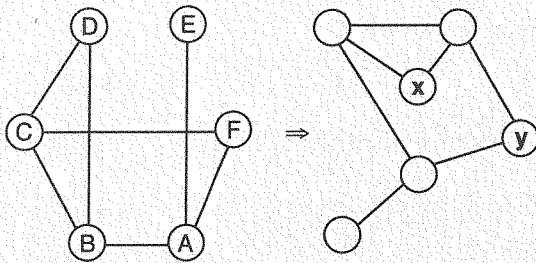
$\frac{x}{y}$	$\frac{y}{x}$
A) D	A
B) D	B
C) D	C
D) E	B
E) E	C

3.


 $\Rightarrow x = ? , y = ?$

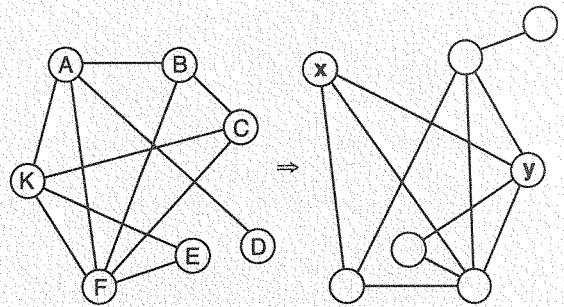
$\frac{x}{y}$	$\frac{y}{x}$
A) B	A
B) B	F
C) E	D
D) E	A
E) E	B

2.


 $\Rightarrow x = ? , y = ?$

$\frac{x}{y}$	$\frac{y}{x}$
A) C	D
B) C	B
C) D	F
D) C	A
E) D	A

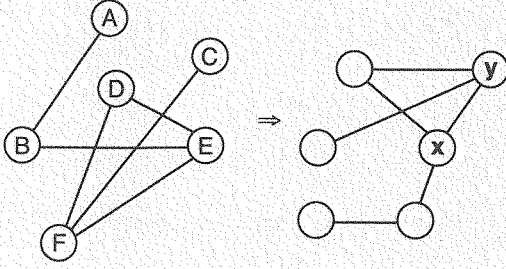
4.


 $\Rightarrow x = ? , y = ?$

$\frac{x}{y}$	$\frac{y}{x}$
A) B	K
B) B	C
C) C	E
D) C	K
E) F	F

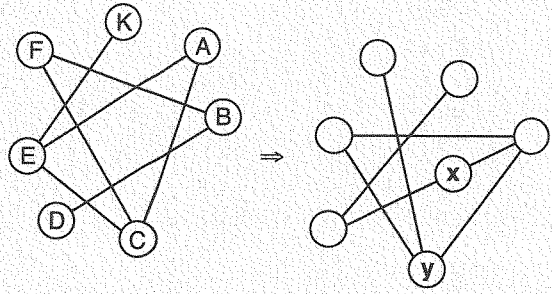
TEST - 3

5.

 $\Rightarrow x = ? , y = ?$

	<u>x</u>	<u>y</u>
A)	E	D
B)	E	F
C)	B	F
D)	E	C
E)	F	B

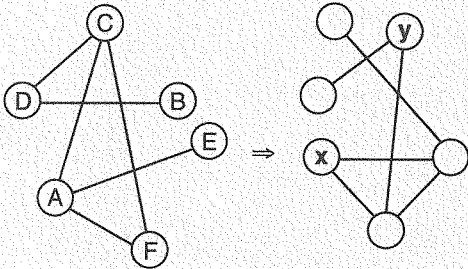
7.

 $\Rightarrow x = ? , y = ?$

	<u>x</u>	<u>y</u>
A)	F	B
B)	A	K
C)	A	B
D)	F	A
E)	F	E

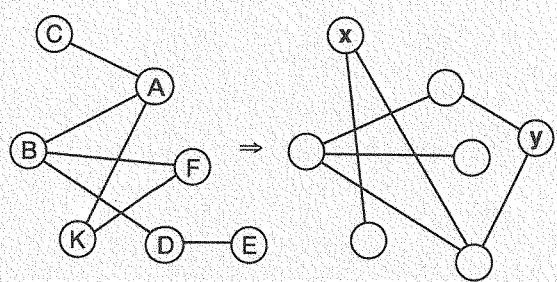
TASARI AKADEMİ YAYINLARI

6.

 $\Rightarrow x = ? , y = ?$

	<u>x</u>	<u>y</u>
A)	D	F
B)	F	A
C)	F	D
D)	A	F
E)	C	A

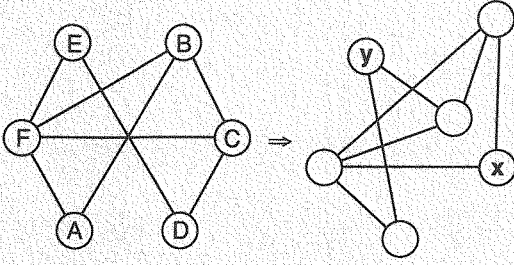
8.

 $\Rightarrow x = ? , y = ?$

	<u>x</u>	<u>y</u>
A)	D	B
B)	D	F
C)	D	K
D)	F	B
E)	K	D

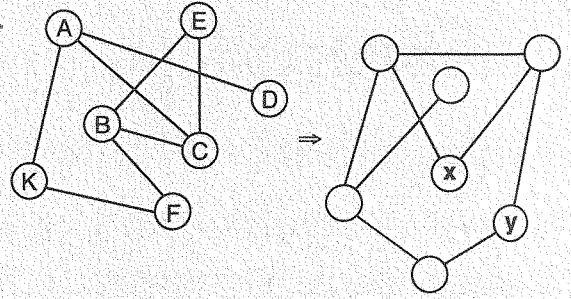
TEST - 3

9.

 $\Rightarrow x = ? , y = ?$

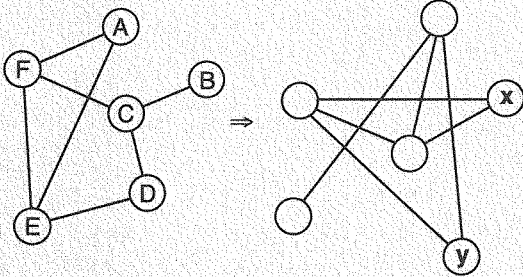
	<u>x</u>	<u>y</u>
A)	B	A
B)	A	F
C)	A	C
D)	A	D
E)	A	B

11.

 $\Rightarrow x = ? , y = ?$

	<u>x</u>	<u>y</u>
A)	E	F
B)	F	E
C)	F	B
D)	F	A
E)	E	C

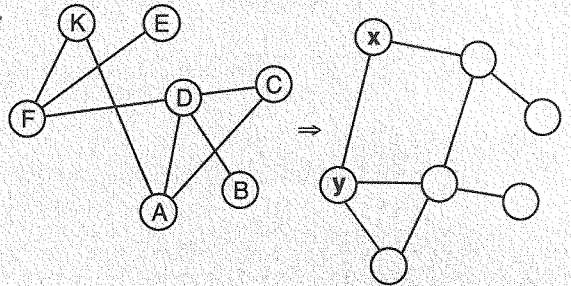
10.

 $\Rightarrow x = ? , y = ?$

	<u>x</u>	<u>y</u>
A)	B	F
B)	A	B
C)	A	C
D)	A	F
E)	A	D

TASARI AKADEMİ YAYINLARI

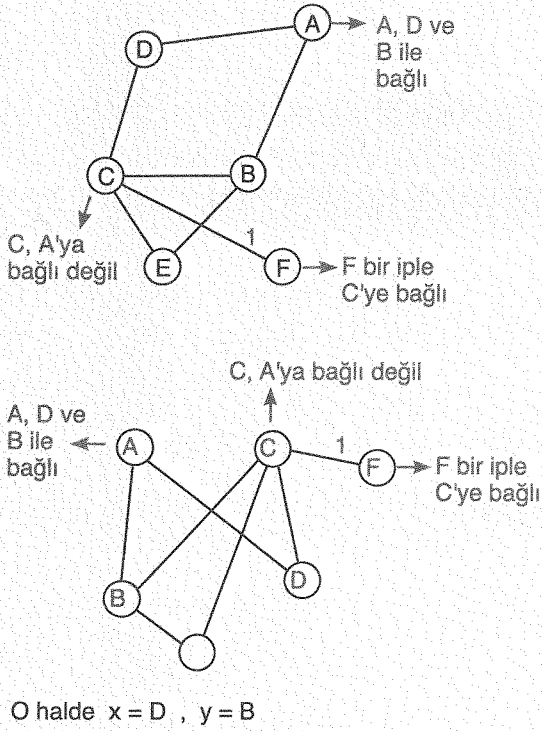
12.

 $\Rightarrow x = ? , y = ?$

	<u>x</u>	<u>y</u>
A)	C	A
B)	F	K
C)	A	K
D)	K	F
E)	K	A

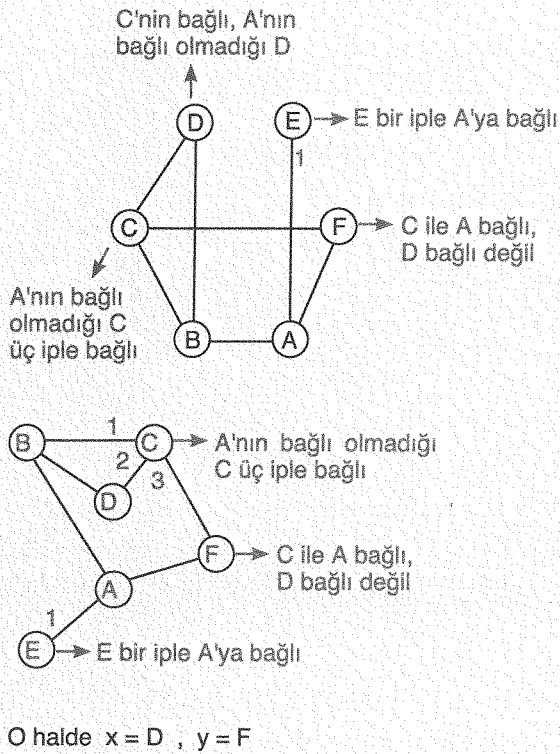
TEST - 3 ÇÖZÜMLER

1.



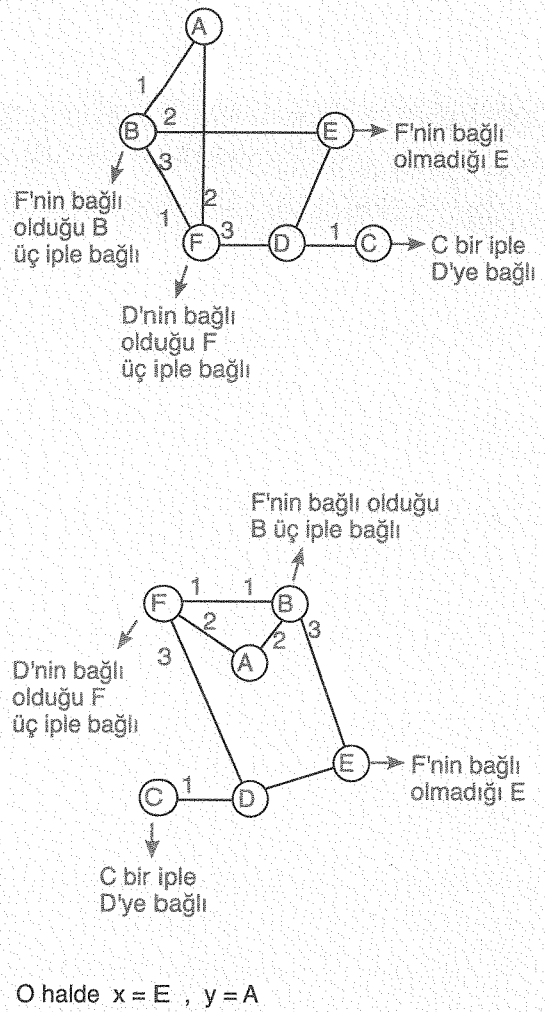
Cevap: B

2.



Cevap: C

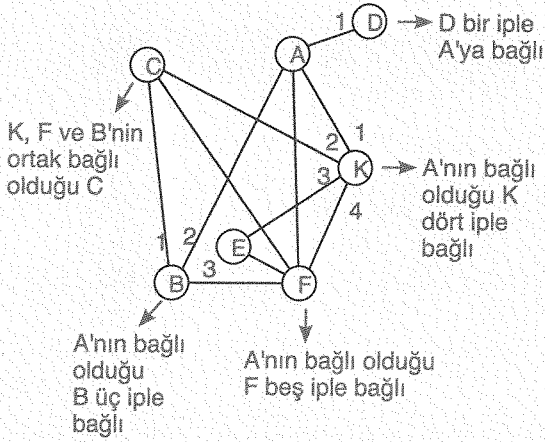
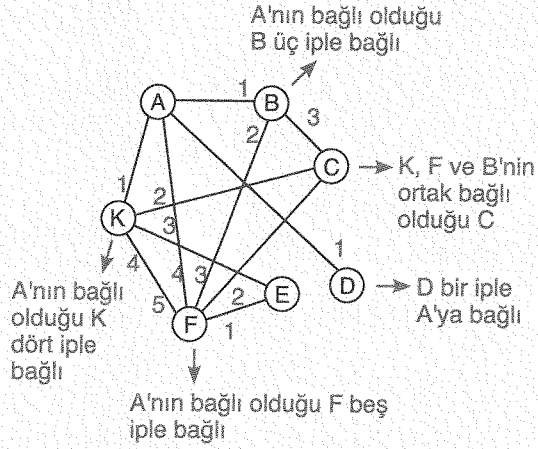
3.



Cevap: D

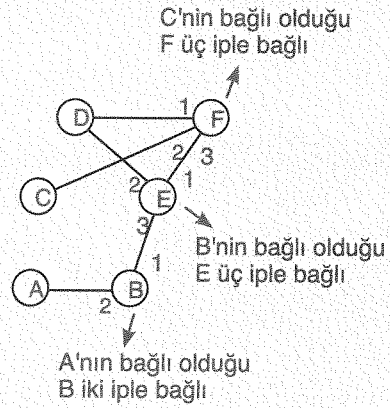
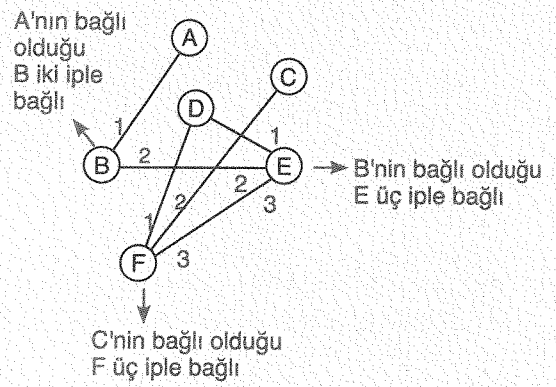
TEST - 3 ÇÖZÜMLER

4.

O halde $x = C$, $y = K$

Cevap: D

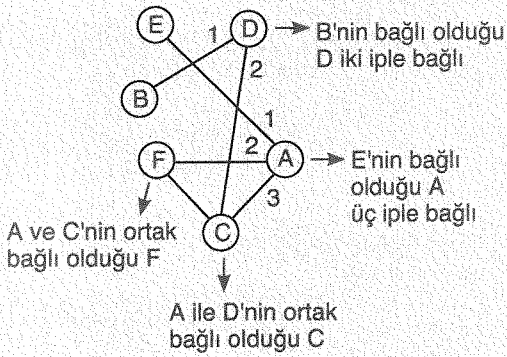
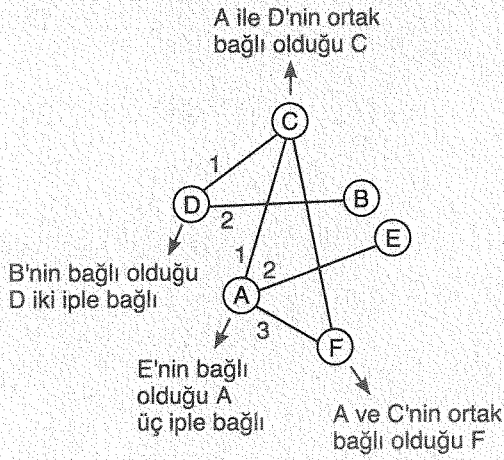
5.

O halde $x = E$, $y = F$

Cevap: B

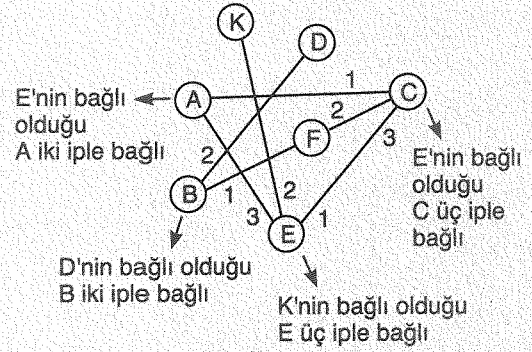
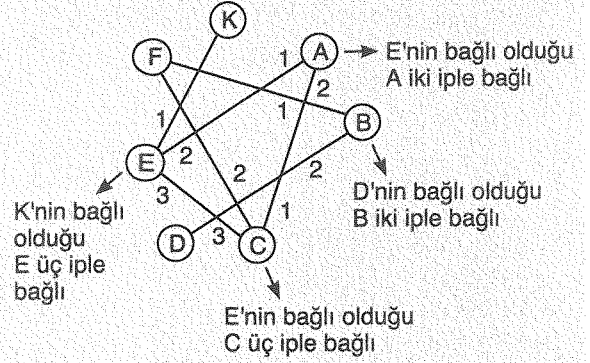
TEST - 3 ÇÖZÜMLER

6.

O halde $x = F$, $y = D$

Cevap: C

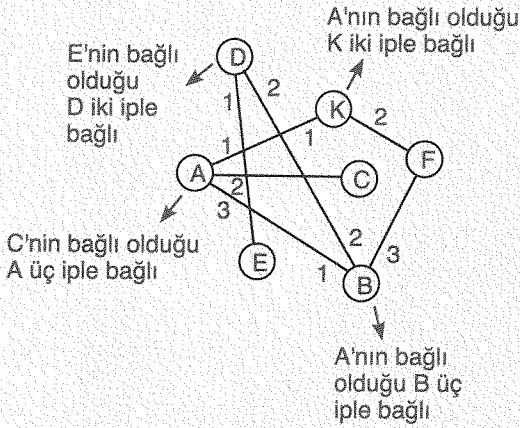
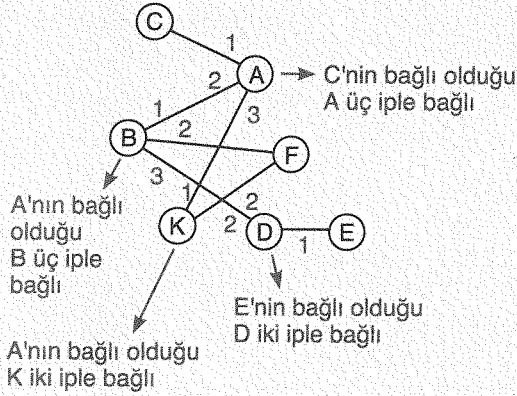
7.

O halde $x = F$, $y = E$

Cevap: E

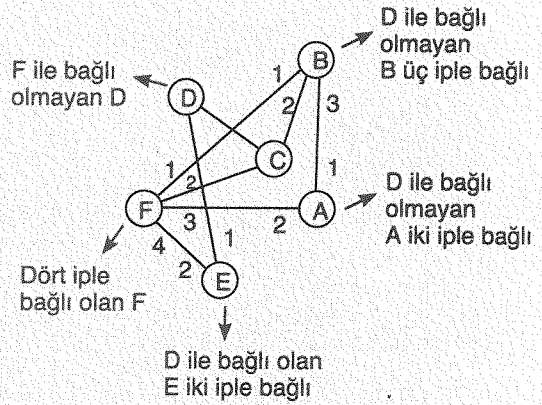
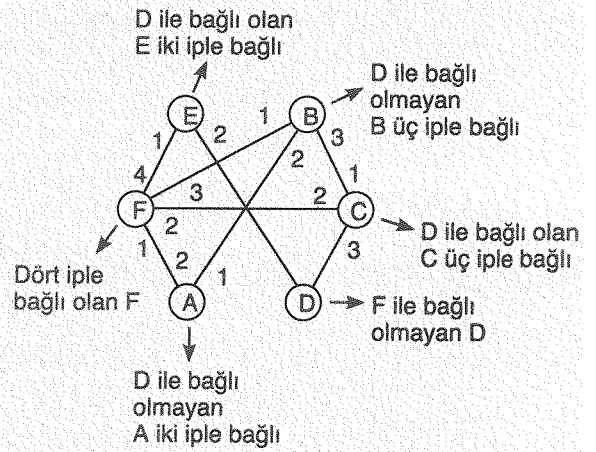
TEST - 3 ÇÖZÜMLER

8.

O halde $x = D$, $y = F$

Cevap: B

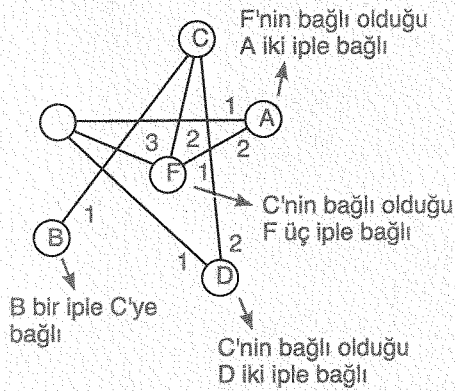
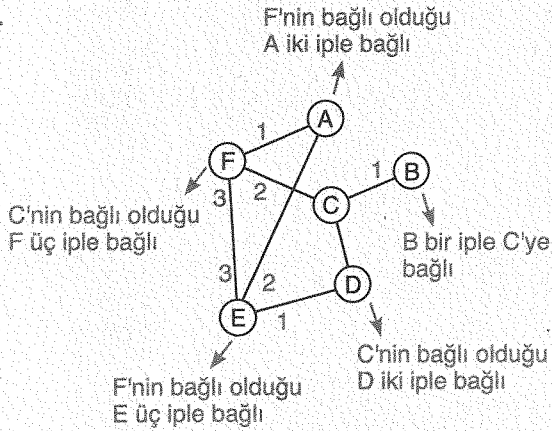
9.

O halde $x = A$, $y = D$

Cevap: D

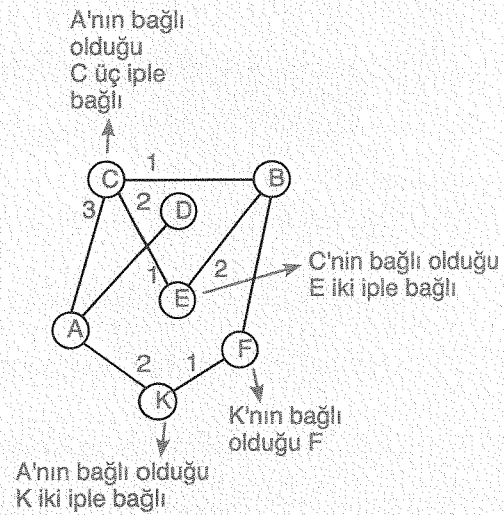
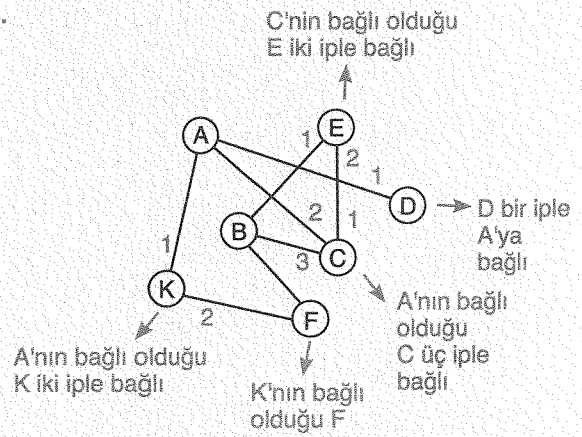
TEST - 3 ÇÖZÜMLER

10.

O halde $x = A$, $y = D$

Cevap: E

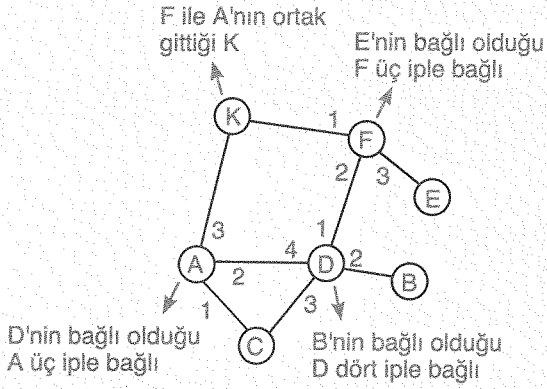
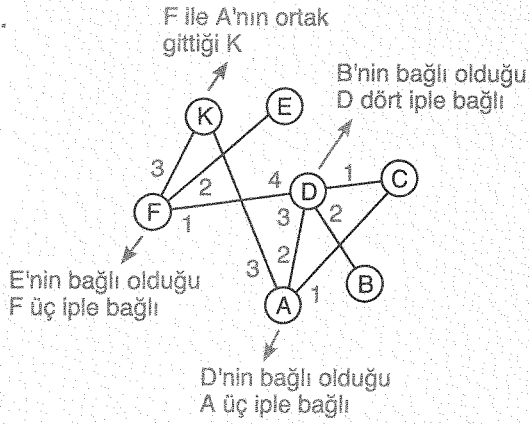
11.

O halde $x = E$, $y = F$

Cevap: A

TEST - 3 ÇÖZÜMLER

12.

O halde $x = K$, $y = A$

Cevap: E

TASARI AKADEMİ YAYINLARI



TABLÖLAR

(TABLES)

TEST - 1

1.

+	a	b	c
a			3b
b	4a	30	
c			

$$\Rightarrow a + b + c = ?$$

- A) 40 B) 45 C) 50 D) 60 E) 70

2.

+	a	b	c
a	22		
b			3a
c			30

$$\Rightarrow b + c - a = ?$$

- A) 19 B) 20 C) 22 D) 24 E) 27

3.

+	a	b	c
a			24
b			2c+4
c			30

$$\Rightarrow a + b + c = ?$$

- A) 43 B) 41 C) 39 D) 37 E) 35

4.

+	a	b	c
a		23	
b			5b
c	32		

$$\Rightarrow \frac{c}{b} \cdot a = ?$$

- A) 100 B) 80 C) 60 D) 40 E) 30

5.

+	a	b	c
a		5b	
b			6b
c	36		

$$\Rightarrow a \cdot c + b = ?$$

- A) 180 B) 240 C) 280 D) 320 E) 324

6. $a, b, c \in \mathbb{R}^+$

x	a	b	c
a	b		
b		c	
c			144

$$\Rightarrow a = ?$$

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

TEST - 1

7. $a \in \mathbb{R}^+$

x	a	b	c
a	36	18	
b			
c	42		

$\Rightarrow b.c = ?$

- A) 1 B) 7 C) 14 D) 21 E) 28

8.

+	a	b	c
a			
b		12	14
c	24		

$\Rightarrow \frac{b.c}{a} = ?$

- A) 3 B)
- $\frac{7}{2}$
- C) 4 D)
- $\frac{9}{2}$
- E) 5

9. $a \in \mathbb{R}^+$

x	a	b	c
a			15
b	12		
c		20	

$\Rightarrow \frac{3.b.c}{a} = ?$

- A) 10 B) 12 C) 15 D) 18 E) 20

10.

x	a	b	c
a		24	
b			
c	72		

$\Rightarrow \frac{c}{b} = ?$

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

11. $c \in \mathbb{R}^+$

x	a	b	c
a			65
b	117		45
c			
d			35

$\Rightarrow d = ?$

- A) 1 B) 5 C) 7 D) 14 E) 35

12.

x	a	b	c
a	7a		
b		9b	
c			11c

$\Rightarrow a + b - c = ?$

- A) 3 B) 5 C) 7 D) 9 E) 10

TEST - 1 ÇÖZÜMLER

1. $\bullet b + b = 30$

$2b = 30$

$b = 15$

$\bullet a + b = 4a$

$b = 3a$

$15 = 3a$

$a = 5$

$\bullet a + c = 3b$

$5 + c = 3 \cdot 15$

$5 + c = 45$

$c = 40$

$\Rightarrow a + b + c = 5 + 15 + 40 = 60$

Cevap: D

4. $\bullet c + b = 5b$

$c = 4b$

$\bullet c + a = 32$

$- a + b = 23$

$c - b = 9$

$\downarrow$
 $4b - b = 9$

$3b = 9$

$b = 3$

$\bullet a + b = 23$

$a + 3 = 23$

$a = 20$

$\Rightarrow \frac{c}{b} \cdot a = \frac{4b}{b} \cdot 20 = 4 \cdot 20 = 80$

Cevap: B

2. $\bullet a + a = 22$

$2a = 22$

$a = 11$

$\bullet c + c = 30$

$2c = 30$

$c = 15$

$\bullet b + c = 3a$

$b + 15 = 3 \cdot 11$

$b + 15 = 33$

$b = 18$

$\Rightarrow b + c - a = 18 + 15 - 11 = 22$

Cevap: C

5. $\bullet a + b = 5b$

$a = 4b$

$\bullet b + c = 6b$

$c = 5b$

$\bullet a + c = 36$

$4b + 5b = 36$

$9b = 36$

$b = 4$

$\Rightarrow a = 4 \cdot b = 4 \cdot 4 = 16$

$\Rightarrow c = 5b = 5 \cdot 4 = 20$

$\Rightarrow a \cdot c = 16 \cdot 20 = 320$

Cevap: E

3. $\bullet c + c = 30$

$2c = 30$

$c = 15$

$\bullet a + c = 24$

$a + 15 = 24$

$a = 9$

$\bullet b + c = 2c + 4$

$b = c + 4$

$b = 15 + 4$

$b = 19$

$\Rightarrow a + b + c = 9 + 19 + 15 = 43$

Cevap: A

6. $\bullet c \cdot c = 144$

$c^2 = 144$

$c = 12$

$\bullet b \cdot b = c$

$b^2 = 12$

$b = \sqrt{12}$

$\bullet a \cdot a = b$

$a^2 = \sqrt{12}$

$a = \sqrt[4]{12}$

Cevap: C

TEST - 1 ÇÖZÜMLER

7. • $a \cdot a = 36$

$a^2 = 36$

$a = 6$

• $a \cdot b = 18$

$6 \cdot b = 18$

$b = 3$

• $a \cdot c = 42$

$6 \cdot c = 42$

$c = 7$

$\Rightarrow b \cdot c = 3 \cdot 7 = 21$

Cevap: D

$$10. \begin{aligned} &\bullet a \cdot c = 72 \\ &a \cdot b = 24 \end{aligned} \Rightarrow \frac{\cancel{a} \cdot c}{\cancel{a} \cdot b} = \frac{72}{24}$$

$$\frac{c}{b} = 3$$

Cevap: B

8. • $b + b = 12$

$2b = 12$

$b = 6$

• $b + c = 14$

$6 + c = 14$

$c = 8$

• $a + c = 24$

$a + 8 = 24$

$a = 16$

$\Rightarrow \frac{b \cdot c}{a} = \frac{6 \cdot 8}{16} = 3$

Cevap: A

11. • $a \cdot x \cdot c = 65$

$x \cdot b \cdot x \cdot c = 45$

$a \cdot b \cdot c^2 = 65.45$

$117 \cdot c^2 = 65.45$

$c^2 = \frac{65.45}{117}$

$c^2 = 25$

$c = 5$

• $d \cdot x \cdot c = 35$

$d \cdot 5 = 35$

$d = 7$

Cevap: C

9. • $a \cdot b = 12$

$x \cdot a \cdot c = 15$

$a^2 \cdot b \cdot c = 12.5$

 $\downarrow$

$a^2 \cdot 20 = 12.15$

$a^2 = 9$

$a = 3$

$\Rightarrow a \cdot b = 12$

$3 \cdot b = 12$

$b = 4$

$\Rightarrow a \cdot c = 15$

$3 \cdot c = 15$

$c = 5$

$\Rightarrow \frac{3 \cdot b \cdot c}{a} = \frac{3 \cdot 4 \cdot 5}{3} = 20$

Cevap: E

12. • $a \cdot \cancel{a} = 7 \cdot \cancel{a}$

$a = 7$

• $b \cdot \cancel{b} = 9 \cdot \cancel{b}$

$b = 9$

• $c \cdot \cancel{c} = 11 \cdot \cancel{c}$

$c = 11$

$\Rightarrow a + b - c = 7 + 9 - 11 = 5$

Cevap: B

TEST - 2

1.

+	a	b	c	d
a			31	
b	$3b - 16$			
c		33		
d			$5a - 9$	

$\Rightarrow b + d = ?$

- A) 40 B) 42 C) 44 D) 46 E) 52

2.

+	a	b	c
a		$2c - 15$	
b			$3a - 7$
c	$2b + 6$		

$\Rightarrow a = ?$

- A) 12 B) 13 C) 14 D) 15 E) 16

3.

I.

-	a	b	c
a		12	
b			108
c			

II.

+	a	b	c
a			11
b			
c			

$\Rightarrow a + b + c = ?$

- A) 256 B) 260 C) 264 D) 266 E) 270

4.

I.

+	a	b	c
a		$\frac{11}{3}$	
b			
c			

II.

x	a	b	c
a			3
b			
c		$\frac{21}{4}$	

$\Rightarrow a.b = ?$

- A)
- $\frac{11}{3}$
- B)
- $\frac{14}{3}$
- C)
- $\frac{17}{3}$
- D) 3 E)
- $\frac{28}{9}$

5.

I.

+	a	b	c
a			
b			32
c			

II.

x	a	b	c
a		$9c$	b
b			
c			

$\Rightarrow c = ?$

- A) 2 B) 4 C) 6 D) 8 E) 16

6.

x	a	b	c
a	b^3		$3ab$
b			
c	$6b$		

$\Rightarrow b = ?$

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

TEST - 2

7.

I.

+	a	b	c
a	16c		
b			
c			8b

II.

x	a	b	c
a		4c	
b			
c			

$$\Rightarrow (a + c).b = ?$$

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

8.

I.

+	a	b	c
a	6c		
b			a+8
c			

II.

x	a	b	c
a			
b			4a
c			

$$\Rightarrow c = ?$$

- A) 2 B) 3 C) 4 D) 8 E) 12

9.

+	a	b	c
a			60
b	5b		
c		45	

$$\Rightarrow a.b - c = ?$$

- A) 30 B) 40 C) 50 D) 60 E) 80

10.

+	a	b	c
a			15
b	4c		
c			

$$\Rightarrow 5a + b = ?$$

- A) 9 B) 15 C) 30 D) 45 E) 60

11.

+	a	b	c
a		28	
b			20
c	4c		

$$\Rightarrow \frac{2b}{c} = ?$$

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

12.

+	a	b	c
a		c+5	
b			a+3
c	b+21		

$$\Rightarrow 2c + b = ?$$

- A) 20 B) 22 C) 24 D) 26 E) 28

TEST - 2 ÇÖZÜMLER

1. • $a + b = 3b - 16$
 $a = 2b - 16$

• $a + c = 31 \Rightarrow 2b - 16 + c = 31$
 $2b + c = 47$

• $b + c = 33$
 $- 2b + c = 47$
 $\hline -b = -14$
 $b = 14$

$\Rightarrow a = 2b - 16 = 2 \cdot 14 - 16 = 28 - 16 = 12$

$\Rightarrow a + c = 31 \Rightarrow 12 + c = 31 \Rightarrow c = 19$

$\Rightarrow d + c = 5a - 9 \Rightarrow d + 19 = 51 \Rightarrow d = 32$
 $\downarrow \quad \downarrow$
 $19 \quad 12$

$\Rightarrow b + d = 14 + 32 = 46$

2. • $a + b = 2c - 15$

$a + c = 2b + 6$

$+ b + c = 3a - 7$

$2a + 2b + 2c = 2b + 2c + 3a - 16$
 $16 = a$

3. I. $a - b = 12$

$+ b - c = 108$

$\hline a - c = 120$

$\downarrow$
 $11c$

$11c - c = 120$

$10c = 120$

$c = 12$

$\Rightarrow a = 11 \cdot c = 11 \cdot 12 = 132$

$\Rightarrow b - c = 108$

$b - 12 = 108$

$b = 120$

$\Rightarrow a + b + c = 132 + 120 + 12 = 264$

Cevap: D

Cevap: E

Cevap: C

4. I. $a + b = \frac{11}{3}$

$4k + 7k = \frac{11}{3}$

$11k = \frac{11}{3}$

$k = \frac{1}{3}$

$\Rightarrow a \cdot b = 4k \cdot 7k = \frac{4}{3} \cdot \frac{7}{3} = \frac{28}{9}$

II. $a \cdot c = 3$

$\Rightarrow \frac{a}{b} \cdot \frac{c}{c} = \frac{3}{\frac{21}{7}} = \frac{3 \cdot 7}{21} = \frac{21}{21} = 1$
 $\frac{a}{b} = \frac{4}{7}$

$\Rightarrow a = 4k \quad b = 7k$

Cevap: E

5. I. $b + c = 32$

$\downarrow$
 $3c$

$4c = 32$

$c = 8$

II. $a \cdot b = 9c$

$a \cdot c = b$

$\Rightarrow \frac{a \cdot b}{a \cdot c} = \frac{9c}{b}$

$b^2 = 9c^2$

$b = 3c$

Cevap: D

6. • $a \cdot c = 3b$

$c = 3b$

• $a \cdot c = 6b$

$\downarrow$
 $3b$

$a \cdot 3b = 6b \Rightarrow a = 2$

• $a \cdot a = b^3$

$2 \cdot 2 = b^3$

$4 = b^3$

$b = \sqrt[3]{4}$

Cevap: D

TEST - 2 ÇÖZÜMLER

7. I. $\cdot a + a = 16c$

$2a = 16c$

$a = 8c$

II. $a \times b = 4c$

$\frac{2}{\cancel{8}}c \cdot \frac{\cancel{4}}{4} = \cancel{4}\cancel{c}$

$2c = 4$

$c = 2$

$\cdot c + c = 8b$

$2c = 8b$

$c = 4b$

$\frac{c}{4} = b$

$\Rightarrow a = 8c = 8 \cdot 2 = 16$

$\Rightarrow b = \frac{c}{4} = \frac{2}{4} = \frac{1}{2}$

$\Rightarrow (a + c) \cdot b = (16 + 2) \cdot \frac{1}{2} = 18 \cdot \frac{1}{2} = 9$

Cevap: D

8. I. $\cdot a + a = 6c$

$2a = 6c$

$a = 3c$

$\cdot b + c = a + 8$

$\downarrow$
 $3c$

$b + c = 3c + 8$

$b - 2c = 8$

II. $b \cdot c = 4a$

$\downarrow$
 $3c$

$b \cdot \cancel{c} = 4 \cdot 3\cancel{c}$

$b = 12$

$\Rightarrow b - 2c = 8$

$12 - 2c = 8$

$4 = 2c$

$c = 2$

Cevap: A

9. $\cdot a + b = 5b$

$a = 4b$

$\cdot a + c = 60$

$\downarrow$
 $4b$

$4b + c = 60$

$\cdot -/b + c = 45$

$+ 4b + c = 60$

$3b = 15$

$b = 5$

$\Rightarrow a = 4 \cdot b = 4 \cdot 5 = 20$

$\Rightarrow b + c = 45$

$5 + c = 45$

$c = 40$

$\Rightarrow a \cdot b - c = 20 \cdot 5 - 40 = 60$

Cevap: D

10. $a + b = 4c$

$+ 4/a + c = 15$

$5a + \cancel{4c} + b = \cancel{4c} + 60$

$5a + b = 60$

Cevap: E

11. $\cdot a + c = 4c$

$a = 3c$

$\cdot a + b = 28$

$- b + c = 20$

$a - c = 8$

$\Rightarrow \frac{2b}{c} = \frac{2 \cdot 16}{4} = 8$

$\cdot a - c = 8$

$\downarrow$
 $3c$

$2c = 8$

$c = 4$

$\Rightarrow b + c = 20$

$\downarrow$
 4

$b + 4 = 20$

$b = 16$

Cevap: C

12. $a + b = c + 5$

$b + c = a + 3$

$+ a + c = b + 21$

$2a + 2b + 2c = a + b + c + 29$

$a + b + c = 29$

$\cdot a + b + c = 29$

$\downarrow$

$c + 5 + c = 29$

$2c = 24$

$\cdot a + c + b = 29$

$\downarrow$

$b + 21 + b = 29$

$2b = 8$

$b = 4$

$\Rightarrow 2c + b = 24 + 4 = 28$

Cevap: E

TEST - 3

1.

+	a	b	c
a	6c	5a-c	
b			
c			

$$\Rightarrow \frac{a+b}{c} = ?$$

- A) 8 B) 10 C) 12 D) 14 E) 16

2.

I.

x	a	b	c
a		48	
b			192
c			

II.

+	a	b	c
a			20
b			
c			

$$\Rightarrow (a+b)-c = ?$$

- A) 0 B) 1 C) 2 D) 3 E) 4

3.

+	a	b	c
a			21-c
b	15-a		
c		12-b	

$$\Rightarrow a+b+c = ?$$

- A) 12 B) 13 C) 14 D) 15 E) 16

4.

+	a	b	c
a	c		
b	35		
c		2c-1	

$$\Rightarrow a-b+c = ?$$

- A) 9 B) 11 C) 13 D) 16 E) 17

5.

I.

+	c	d
a	11	10
b	10	9

II.

x	c	d
a	28	24
b	21	18

$$\Rightarrow (a-c) + (b-d) = ?$$

- A) -6 B) -4 C) 0 D) 4 E) 6

6.

x	a	b	c
a		8c	
b			18
c	12		

$$\Rightarrow b+c = ?$$

- A) 18 B) 16 C) 14 D) 12 E) 9

TEST - 3

7.

+	a	b	c
a	$\frac{b}{5}$		$\frac{b}{2}$
b	132		
c			

$$\Rightarrow a + b + c = ?$$

- A) 140 B) 144 C) 148 D) 160 E) 180

8.

+	a	b	c
a		22	
b			36
c	18		

$$\Rightarrow a + b - c = ?$$

- A) 4 B) 6 C) 8 D) 10 E) 11

9.

I.

+	a	b	c
a			b+2
b		2c+6	
c			

II.

x	a	b	c
a			
b			
c	40		

$$\Rightarrow \frac{b+a}{c} = ?$$

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

10.

I.

+	a	b	c
a			5c
b			21

II.

x	a	b	c
a			196
b			

$$\Rightarrow \frac{a+b}{c} = ?$$

- A) 5 B) 6 C) 7 D) 12 E) 14

11.

I.

+	$\triangle$	$\bullet$	$\star$
$\triangle$	$\blacktriangle$	$\boxplus$	$\triangle$
$\bullet$	$\boxplus$	$\square$	$\bullet$
$\star$	$\triangle$	$\bullet$	$\star$

II.

x	$\triangle$	$\bullet$	$\star$
$\triangle$	8 $\square$	$\triangle$	$\star$
$\bullet$	$\triangle$	$\bullet$	$\star$
$\star$	$\star$	$\star$	$\star$

$$\Rightarrow \blacktriangle + \boxplus + \square = ?$$

- A) 11 B) 12 C) 13 D) 15 E) 18

12.

I.

+	#	$\odot$	$\heartsuit$
#	$\odot$	$\blacksquare$	$\equiv$
$\odot$	$\blacksquare$	$\heartsuit$	$\bullet$
$\heartsuit$	$\equiv$	$\bullet$	$\star$

II.

x	#	$\odot$	$\heartsuit$
#	#	$\odot$	$\heartsuit$
$\odot$	$\odot$	$\heartsuit$	$\star$
$\heartsuit$	$\heartsuit$	$\star$	$\triangle$

$$\Rightarrow \frac{\bullet + \star - \equiv}{\blacksquare} = ?$$

- A) 3 B) $\frac{7}{2}$ C) 4 D) $\frac{11}{2}$ E) 6

TEST - 3 ÇÖZÜMLER

1. $a + a = 6c$

$2a = 6c$

$a = 3c$

$a + b = 5a - c$

↓

$3c + b = 5(3c) - c$

$3c + b = 15c - c$

$b = 14c - 3c$

$b = 11c$

$\Rightarrow \frac{a+b}{c} = \frac{3c+11c}{c} = \frac{14\cancel{c}}{\cancel{c}} = 14$

Cevap: D

2. I. $a.b = 48$

$+ b.c = 192$

$a.b + b.c = 240$

$b(a+c) = 240$

$b.20 = 240$

$b = 12$

$\Rightarrow a.12 = 48 \Rightarrow a = 4$

$\Rightarrow a+b-c = 4+12-16=0$

II. $a+c=20$

$\Rightarrow 4+c=20$

$c = 16$

Cevap: A

3. $a+c=21-c \Rightarrow a+2c=21$

$a+b=15-a \Rightarrow 2a+b=15$

$b+c=12-b \Rightarrow +2b+c=12$

$3(a+b+c) = 48$

$a+b+c = 16$

Cevap: E

4. $a+a=c \Rightarrow c=2a$

$a+b=35 \Rightarrow b=35-a$

$b+c=2c-1 \Rightarrow 35-a+2a=2(2a)-1$

$35+a=4a-1$

$3a=36$

$a = 12$

$\Rightarrow c=2a=2.12=24$

$b=35-a=35-12=23$

$\Rightarrow a-b+c=12-23+24=13$

Cevap: C

5. I. $a+c=11$ II. $a.c=28 \Rightarrow a=4, c=7$

$b+c=10 \quad b.c=21 \Rightarrow b=3, c=7$

$a+d=10 \quad a.d=24 \Rightarrow a=4, d=6$

$b+d=9 \quad b.d=18 \Rightarrow b=3, d=6$

$\Rightarrow (a-c) + (b-d) = (4-7) + (3-6) = -3-3=-6$

Cevap: A

6. $b.c=18$

$\times a.c=12$

$a.b.c^2 = 18.12$

↓

$8c.c^2 = 18.12$

$c^3 = 27 \Rightarrow c=3$

$\Rightarrow b.c = b.3 = 18 \Rightarrow b=6$

$\Rightarrow b+c = 6+3=9$

Cevap: E

7. $a+a = \frac{b}{5} \Rightarrow 10a=b$

$a+b=132 \Rightarrow a+10a=132$

$11a=132$

$a = 12$

$b = 120$

$a+c = \frac{b}{2} \Rightarrow 12+c = \frac{120}{2}$

$12+c=60$

$c = 48$

$\Rightarrow a+b+c = 12+120+48=180$

Cevap: E

8. $-/\cancel{a} + \cancel{b} = 22$

$\cancel{a} + c = 18$

$+ \cancel{b} + c = 36$

$2c = -22 + 18 + 36 = 32$

$\Rightarrow c = 16$

$\Rightarrow a+b-c = 22-16=6$

Cevap: B

TEST - 3 ÇÖZÜMLER

9. I. $b + b = 2c + 6$

$2b = 2c + 6$

$2b - 2c = 6$

$b - c = 3$

$\Rightarrow a + c = b + 2$

$a = b - c + 2$

$a = 3 + 2$

$a = 5$

$\Rightarrow \frac{b+a}{c} = \frac{11+5}{8} = \frac{16}{8} = 2$

II. $a.c = 40$

$5c = 40$

$c = 8$

$\Rightarrow b - c = 3$

$b - 8 = 3$

$b = 11$

Cevap: D

10. I. $a + c = 5c$

$a = 4c$

$\Rightarrow a = 4c = 4.7 = 28$

$\Rightarrow b + c = 21$

$b + 7 = 21$

$b = 14$

$\Rightarrow \frac{a+b}{c} = \frac{28+14}{7} = 6$

II. $a.c = 196$

$\downarrow$

$4c.c = 196$

$4c^2 = 196$

$c^2 = 49$

$c = 7$

Cevap: B

11. I. $\Rightarrow \bullet + \bullet = \square$

$1 + 1 = \square$

$2 = \square$

$\Rightarrow \triangle + \triangle = \blacktriangle$

$4 + 4 = \blacktriangle$

$8 = \blacktriangle$

$\Rightarrow \bullet + \triangle = \boxplus$

$1 + 4 = \boxplus$

$5 = \boxplus$

$\Rightarrow \blacktriangle + \boxplus + \square = 8 + 5 + 2 = 15$

II. $\triangle \times \star = \star$

$\bullet \times \star = \star$

$\star \times \star = \star$

$\triangle \times \bullet = \triangle$

$\bullet \times \bullet = \bullet$

$\star \times \bullet = \star$

$\Rightarrow \triangle \times \triangle = 8\square$

$\triangle^2 = 8.2$

$\triangle = 4$

Cevap: D

12. I. $\# + \# = \odot$

$1 + 1 = \odot$

$2 = \odot$

$\Rightarrow \odot + \odot = \heartsuit$

$2 + 2 = \heartsuit$

$4 = \heartsuit$

$\Rightarrow \# + \heartsuit = \boxminus$

$1 + 4 = \boxminus$

$5 = \boxminus$

$\Rightarrow \# + \odot = \blacksquare$

$1 + 2 = \blacksquare$

$3 = \blacksquare$

$\Rightarrow \odot + \heartsuit = \bullet$

$2 + 4 = \bullet$

$6 = \bullet$

$\Rightarrow \frac{\bullet + \star - \boxminus}{\blacksquare} = \frac{6 + 8 - 5}{3} = \frac{9}{3} = 3$

Cevap: A

II. $\# \times \# = \#$

$\# = 1$

$\Rightarrow \heartsuit \times \odot = \star$

$4.2 = \star$

$8 = \star$

TEST - 4

1.

■	4	8	12
16	A	6	7
20	6	B	8
24	7	8	C

$$\Rightarrow A + B + C = ?$$

- A) 17 B) 18 C) 20 D) 21 E) 24

2.

●	2	3	4
8	K	$2\sqrt{6}$	$4\sqrt{2}$
12	$2\sqrt{6}$	6	L
9	$3\sqrt{2}$	M	6

$$\Rightarrow \frac{M}{L} + K = ?$$

- A) $\frac{16}{3}$ B) $\frac{17}{4}$ C) $2\sqrt{3} + 4\sqrt{2}$
D) $4\sqrt{3}$ E) $\frac{19}{4}$

3.

▲	3	2
4	$\frac{7}{12}$	$\frac{6}{8}$
5	$\frac{8}{15}$	A

★	3	4
1	$\frac{2}{3}$	$\frac{3}{4}$
2	B	$\frac{2}{8}$

$$\Rightarrow A.B = ?$$

- A) $\frac{1}{20}$ B) $\frac{7}{60}$ C) $\frac{2}{15}$ D) $\frac{1}{15}$ E) $\frac{1}{10}$

4.

●	7	21
9	8	A
15	11	18

▲	4	19
8	B	9
17	7	12

$$\Rightarrow A.B = ?$$

- A) 60 B) 45 C) 42 D) 40 E) 36

5.

■	22	14	32
19	A	6	6
17	11	B	13
23	C	10	10

$$\Rightarrow A + B - C = ?$$

- A) -2 B) -1 C) 0 D) 1 E) 3

6.

●	5	9	11
4	1	25	A
7	4	B	16
10	C	1	1

$$\Rightarrow A.B - C = ?$$

- A) 151 B) 154 C) 163 D) 171 E) 173

TEST - 4

7.

#	7	6	5
2	K		12
8		56	L
14	112		

$$\Rightarrow 2K - L = ?$$

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

8.

●	△	□	◇
60		15	C
120	A		24
240	80	B	

$$\Rightarrow \frac{B}{C} + A = ?$$

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

9.

■	★	●	▲
3	8	B	16
7	16	24	C
13	A	42	56

$$\Rightarrow A - B + C = ?$$

- A) 36 B) 42 C) 43 D) 48 E) 51

10.

●	12	24	60
#	4	B	28
▲	A	5	17
■	-1	2	C

$$\Rightarrow A + B + C = ?$$

- A) 18 B) 20 C) 22 D) 24 E) 26

11.

17	16	23	24
23	24	29	28
41	29	35	47
13	12	27	?

- A) 22 B) 24 C) 26 D) 28 E) 30

12.

7	8	11	13
11	12	4	5
4	8	7	8
5	2	3	6
57	80	23	?

- A) 13 B) 17 C) 19 D) 21 E) 23

TEST - 4 ÇÖZÜMLER

1. $a \blacksquare b = \frac{a+b}{4}$ (Kural)

• $16 \blacksquare 4 = \frac{16+4}{4} = \frac{20}{4} = 5 = A$

• $20 \blacksquare 8 = \frac{20+8}{4} = \frac{28}{4} = 7 = B$

• $24 \blacksquare 12 = \frac{24+12}{4} = \frac{36}{4} = 9 = C$

$\Rightarrow A+B+C = 5+7+9 = 21$

Cevap: D

2. $a \bullet b = \sqrt{a \cdot b}$ (Kural)

• $8 \bullet 2 = \sqrt{8 \cdot 2} = 4 = K$

• $12 \bullet 4 = \sqrt{12 \cdot 4} = 4\sqrt{3} = L$

• $9 \bullet 3 = \sqrt{9 \cdot 3} = 3\sqrt{3} = M$

$\Rightarrow \frac{M}{L} + K = \frac{3\sqrt{3}}{4\sqrt{3}} + 4 = \frac{3}{4} + 4 = \frac{19}{4}$

Cevap: E

3. I. $a \blacktriangle b = \frac{a+b}{a \cdot b}$ (Kural)

• $5 \blacktriangle 2 = \frac{5+2}{5 \cdot 2} = \frac{7}{10} = A$

II. $a \star b = \frac{b-a}{b \cdot a}$ (Kural)

• $2 \star 3 = \frac{3-2}{3 \cdot 2} = \frac{1}{6} = B$

$\Rightarrow A \cdot B = \frac{7}{10} \cdot \frac{1}{6} = \frac{7}{60}$

Cevap: B

4. I. $a \bullet b = \frac{a+b}{2}$ (Kural)

• $9 \bullet 21 = \frac{9+21}{2} = 15 = A$

II. $a \blacktriangle b = \frac{a+b}{3}$ (Kural)

• $8 \blacktriangle 4 = \frac{8+4}{3} = \frac{12}{3} = 4 = B$

$\Rightarrow A \cdot B = 15 \cdot 4 = 60$

Cevap: A

5. $(ab) \blacksquare (cd) = e + f$ ($ab + cd = ef$) (Kural)

• $19 \blacksquare 22 = 4 + 1 = 5 = A$ ($19 + 22 = 41$)

• $17 \blacksquare 14 = 3 + 1 = 4 = B$ ($17 + 14 = 31$)

• $23 \blacksquare 22 = 4 + 5 = 9 = C$ ($23 + 22 = 45$)

$\Rightarrow A + B - C = 5 + 4 - 9 = 0$

Cevap: C

6. $a \bullet b = (a - b)^2$ (Kural)

• $4 \bullet 11 = (4 - 11)^2 = 49 = A$

• $7 \bullet 9 = (7 - 9)^2 = 4 = B$

• $10 \bullet 5 = (10 - 5)^2 = 25 = C$

$\Rightarrow A \cdot B - C = 49 \cdot 4 - 25 = 196 - 25 = 171$

Cevap: D

7. $a \# b = a \cdot (b + 1)$ (Kural)

• $2 \# 7 = 2 \cdot (7 + 1) = 2 \cdot 8 = 16 = K$

• $8 \# 5 = 8 \cdot (5 + 1) = 8 \cdot 6 = 48 = L$

$\Rightarrow 2K - L = 2 \cdot 16 - 48 = 32 - 48 = -16$

Cevap: A

TEST - 4 ÇÖZÜMLER

8. I. $a \bullet \triangle = \frac{a}{3}$
 $\bullet 120 \bullet \triangle = \frac{120}{3} = 40 = A$

II. $a \bullet \square = \frac{a}{5}$
 $\bullet 60 \bullet \square = \frac{60}{5} = 12 = C$

III. $a \bullet \square = \frac{a}{4}$
 $\bullet 240 \bullet \square = \frac{240}{4} = 60 = B$
 $\Rightarrow \frac{B}{C} + A = \frac{60}{12} + 40 = 5 + 40 = 45$

Cevap: A

9. I. $a \blacksquare \star = 2.a + 2$
 $\bullet 13 \blacksquare \star = 2.13 + 2 = 28 = A$

II. $a \blacksquare \bullet = 3.a + 3$
 $\bullet 3 \blacksquare \bullet = 3.3 + 3 = 12 = B$

III. $a \blacksquare \blacktriangle = 4.a + 4$
 $\bullet 7 \blacksquare \blacktriangle = 4.7 + 4 = 32 = C$
 $\Rightarrow A - B + C = 28 - 12 + 32 = 48$

Cevap: D

10. I. $\# \bullet a = \frac{a}{2} - 2$
 $\bullet \# \bullet 24 = \frac{24}{2} - 2 = 10 = B$

II. $\blacktriangle \bullet a = \frac{a}{3} - 3$
 $\bullet \blacktriangle \bullet 12 = \frac{12}{3} - 3 = 1 = A$

III. $\blacksquare \bullet a = \frac{a}{4} - 4$
 $\bullet \blacksquare \bullet 60 = \frac{60}{4} - 4 = 11 = C$
 $\Rightarrow A + B + C = 1 + 10 + 11 = 22$

Cevap: C

11.

17	16	23	24	$\rightarrow 17 + 23 - 16 = 24$
23	24	29	28	$\rightarrow 23 + 29 - 24 = 28$
41	29	35	47	$\rightarrow 41 + 35 - 29 = 47$
13	12	27	x	$\rightarrow 13 + 27 - 12 = 28 = x$

Cevap: D

12.

7	8	11	13
11	12	4	5
4	8	7	8
5	2	3	6
57	80	23	?

I. II. III. IV.

I. $(7.11) - (4.5) = 77 - 20 = 57$

II. $(8.12) - (8.2) = 96 - 16 = 80$

III. $(11.4) - (7.3) = 44 - 21 = 23$

IV. $x = (13.5) - (8.6) = 65 - 48 = 17$

Cevap: B

ŞEKİL TABLOLARI (FIGURE TABLES)

TEST - 1

1.

⊗	★	△	●
□	△	#	△
□	●	△	●
÷	※	+	#

K	
△	
L	△

M	△
M	L

⇒ K = ? , L = ? , M = ?

- | | <u>K</u> | <u>L</u> | <u>M</u> |
|----|----------|----------|----------|
| A) | ● | △ | □ |
| B) | ★ | ● | □ |
| C) | ★ | □ | ● |
| D) | □ | ● | △ |
| E) | ● | □ | ★ |

2.

⊙	⊠	⊙	△
⊠	△	⊠	△
⊙	∞	⊙	∞
∞	⊙	∞	⊙

K	
K	
⊙	L

N	M
M	K

⇒ L = ? , M = ? , N = ?

- | | <u>L</u> | <u>M</u> | <u>N</u> |
|----|----------|----------|----------|
| A) | ∞ | △ | ⊠ |
| B) | ⊙ | ∞ | △ |
| C) | ∞ | ⊠ | ⊙ |
| D) | ⊠ | ⊙ | ∞ |
| E) | ∞ | ⊙ | ⊠ |

3.

◇	⊙	#	⊙
β	◇	⊙	#
β	β	■	△
α	■	α	△

L	
K	
K	K

M	
L	N

⇒ M = ? , N = ?

- | | <u>M</u> | <u>N</u> |
|----|----------|----------|
| A) | α | # |
| B) | # | ◇ |
| C) | # | α |
| D) | ⊙ | # |
| E) | # | ⊙ |

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4.

+	×	+	○
×	+	×	○
⊠	⊗	⊠	⊗

△	β	△	★
β	?	β	★
⊙	?	?	#

- | | | | | | | | | | | | | | | | | | |
|----|--|---|--|---|---|----|--|---|--|---|---|----|--|---|--|---|---|
| A) | <table><tr><td>△</td><td></td></tr><tr><td>★</td><td>★</td></tr></table> | △ | | ★ | ★ | B) | <table><tr><td>△</td><td></td></tr><tr><td>β</td><td>★</td></tr></table> | △ | | β | ★ | C) | <table><tr><td>△</td><td></td></tr><tr><td>⊙</td><td>#</td></tr></table> | △ | | ⊙ | # |
| △ | | | | | | | | | | | | | | | | | |
| ★ | ★ | | | | | | | | | | | | | | | | |
| △ | | | | | | | | | | | | | | | | | |
| β | ★ | | | | | | | | | | | | | | | | |
| △ | | | | | | | | | | | | | | | | | |
| ⊙ | # | | | | | | | | | | | | | | | | |
| D) | <table><tr><td>△</td><td></td></tr><tr><td>#</td><td>⊙</td></tr></table> | △ | | # | ⊙ | E) | <table><tr><td>β</td><td></td></tr><tr><td>⊙</td><td>#</td></tr></table> | β | | ⊙ | # | | | | | | |
| △ | | | | | | | | | | | | | | | | | |
| # | ⊙ | | | | | | | | | | | | | | | | |
| β | | | | | | | | | | | | | | | | | |
| ⊙ | # | | | | | | | | | | | | | | | | |

TEST - 1 ÇÖZÜMLER

1.

⊗	★	△	●
□	△	#	△
□	●	△	●
÷	※	+	#

⇒

K	
△	
L	△

⇒ K = ★
L = ●

⊗	★	△	●
□	△	#	△
□	●	△	●
÷	※	+	#

⇒

M	△
M	L

⇒ M = □

Cevap: B

3.

◇	○	#	○
β	◇	○	#
β	β	■	△
α	■	α	△

⇒

L	
K	
K	K

⇒ L = ◇
K = β

		#	
	◇	○	

⇒

	M
L	N

⇒ L = ◇
M = #
N = ○

Cevap: E

2.

○	□	○	△
□	△	□	△
⊙	∞	⊙	∞
∞	⊙	∞	○

⇒

K	
K	
⊙	L

⇒ K = △
L = ∞

N	M
M	K

⇒ N = ○
M = □
K = △

Cevap: C

4.

+	×	+	○
×	+	×	○
⊗	⊗	⊗	⊗

=

△	β	△	★
β	△	β	★
⊙	#	⊙	#

⇒

+ = △
 × = β
 ○ = ★
 ⊗ = ⊙
 ⊗ = #

Cevap: D

TEST - 1 ÇÖZÜMLER

5.

⊙	↗	⊙
#	⊙	#
♥	#	♥
≡	♥	≡

↘	ψ	↘
†	↘	†
∅	†	∅
✕	∅	✕

♥ = ∅
= †
⊙ = ↘
≡ = ✕

Cevap: E

7.

ψ	◇	ψ	⊙
◇	⊙	◇	α
#	α	ψ	⊙
★	#	#	⊙

M	α
N	M

M = #
N = ★

		ψ	
		◇	
		ψ	⊙

K	
◇	
K	L

K = ψ
L = ⊙

Cevap: D

6.

//	∞	//	△
∞	△	∞	†
⊙	†	//	×
Ω	⊙	⊙	Σ

K	
∞	
K	L

K = //
L = ×

⊙	†		
Ω	⊙		

M	†
N	M

M = ⊙
N = Ω

Cevap: C

8.

+	△	●	△
♥	⊛	+	⊛
♥	△	●	÷
△	●	÷	⊛

	K	
L	+	L
	K	

K = ●
L = ⊛

		●	÷
	●	÷	⊛

	K	M
K	M	⊛

M = ÷

Cevap: D

TEST - 2

1.

★	#	○	♥	#	△	□
△	~	△	□	~	#	♥
#	△	~	○	♥	○	★
○	○	#	△	□	~	#
□	□	♥	#	○	♥	△
♥	~	★	★	△	★	~
~	★	~	~	★	□	○

	K
M	L
	M

L	K
N	M
	L

⇒ K = # , L = ~ , M = ? , N = ?

- | | | |
|----|----------|----------|
| | <u>M</u> | <u>N</u> |
| A) | □ | ★ |
| B) | ~ | ★ |
| C) | △ | ♥ |
| D) | ★ | □ |
| E) | ★ | △ |

2.

■	○	~	△	#	#	■
~	△	■	#	+	~	○
#	※	△	※	■	#	~
+	#	+	■	△	+	+
※	+	※	~	~	※	△
△	~	○	※	○	■	○
○	■	○	+	+	△	#

L	K
M	L

L	N
M	M
	K

⇒ L = # , K = ? , N = ?

- | | | |
|----|----------|----------|
| | <u>K</u> | <u>N</u> |
| A) | + | ~ |
| B) | ※ | ~ |
| C) | ※ | + |
| D) | △ | + |
| E) | ■ | ※ |

3.

□	○	△	#	□	#
△	#	○	□	△	○
#	★	★	*	★	★
*	□	*	○	*	△
★	*	□	★	#	□
○	#	#	△	○	*

L	L
M	N
	K

	L	L
M	K	M

⇒ K = □ , M = ? , N = ?

- | | | |
|----|----------|----------|
| | <u>M</u> | <u>N</u> |
| A) | * | △ |
| B) | □ | # |
| C) | * | ○ |
| D) | □ | △ |
| E) | □ | △ |

4.

#	○	□	π	●	△
△	□	π	●	○	#
#	π	○	#	△	□
●	△	#	π	#	●
π	○	△	#	□	●
○	π	#	△	●	□

L	K	M
K		
M		

	N
M	L
L	M

⇒ L = ○ , M = ? , N = ?

- | | | |
|----|----------|----------|
| | <u>M</u> | <u>N</u> |
| A) | π | △ |
| B) | ○ | □ |
| C) | △ | ○ |
| D) | ● | # |
| E) | π | ○ |

TEST - 2

5.

△	○	★	#	~	□
□	~	#	△	□	○
○	★	#	△	□	~
~	#	△	□	○	★
★	□	△	#	★	○
#	△	○	#	~	~

L	K
L	K

K	M
K	L

⇒ L = # , M = ? , K = ?

- | | | |
|----|----------|----------|
| | <u>M</u> | <u>K</u> |
| A) | □ | △ |
| B) | □ | # |
| C) | △ | △ |
| D) | # | □ |
| E) | # | ~ |

6.

♥	⊙	÷	▣	♥	÷
÷	×	#	×	▣	▣
#	▣	▣	⊙	÷	♥
▣	#	×	÷	⊙	×
×	÷	⊙	#	×	⊙
⊙	♥	♥	♥	▣	#

L	K
M	M

L	M
K	N

⇒ L = ÷ , M = ♥ ⇒ N = ? , K = ?

- | | | |
|----|----------|----------|
| | <u>N</u> | <u>K</u> |
| A) | × | ▣ |
| B) | ▣ | × |
| C) | ▣ | ⊙ |
| D) | × | ⊙ |
| E) | ⊙ | × |

7.

★	○	△	□	○	#
□	△	□	★	□	⊙
○	#	#	○	△	□
#	⊙	★	#	★	○
△	★	○	⊙	#	△
⊙	△	⊙	□	⊙	★

L	K
K	M

L	K
N	M

⇒ L = ○ , K = # ⇒ M = ? , N = ?

- | | | |
|----|----------|----------|
| | <u>M</u> | <u>N</u> |
| A) | ⊙ | □ |
| B) | # | □ |
| C) | ⊙ | ★ |
| D) | □ | ⊙ |
| E) | △ | ⊙ |

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8.

△	♥	⊙	#	▣	△
▣	△	▣	♥	⊙	#
\$	⊙	#	▣	▣	♥
#	△	♥	△	#	#
⊙	⊙	△	#	△	⊙
♥	▣	▣	⊙	♥	▣

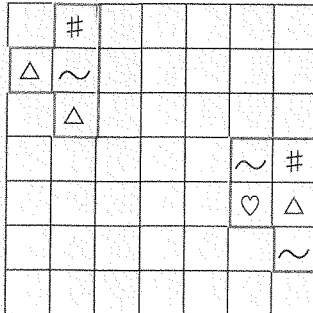
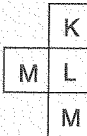
L	K
M	L

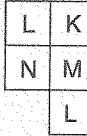
K	M
L	N

⇒ L = △ , K = ♥ ⇒ M = ? , N = ?

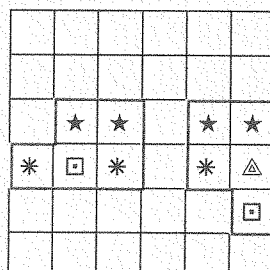
- | | | |
|----|----------|----------|
| | <u>M</u> | <u>N</u> |
| A) | ▣ | # |
| B) | ▣ | ⊙ |
| C) | ⊙ | ▣ |
| D) | # | ⊙ |
| E) | ⊙ | # |

TEST - 2 ÇÖZÜMLER

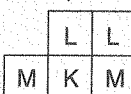
1.  $\Rightarrow$  $\Rightarrow K = \#$
 $\Rightarrow L = \sim$
 $\Rightarrow M = \Delta$

 $\Rightarrow N = \heartsuit$

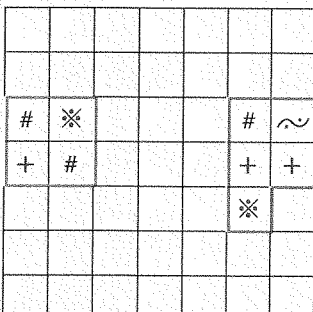
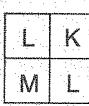
Cevap: C

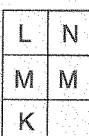
3.  $\Rightarrow$  $\Rightarrow L = \star$
 $\Rightarrow M = *$
 $\Rightarrow N = \Delta$
 $\Rightarrow K = \square$

$\downarrow$

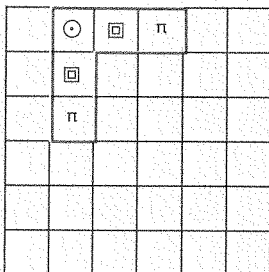
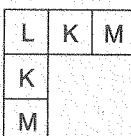
 $\Rightarrow L = \star$
 $\Rightarrow M = *$
 $\Rightarrow K = \square$

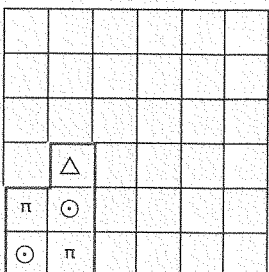
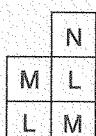
Cevap: A

2.  $\Rightarrow$  $\Rightarrow L = \#$
 $\Rightarrow M = +$
 $\Rightarrow K = \text{✱}$

 $\Rightarrow N = \sim$

Cevap: B

4.  $\Rightarrow$  $\Rightarrow L = \odot$
 $\Rightarrow K = \square$
 $\Rightarrow M = \pi$

 $\Rightarrow$  $\Rightarrow L = \odot$
 $\Rightarrow M = \pi$
 $\Rightarrow N = \Delta$

Cevap: A

TEST - 2 ÇÖZÜMLER

5.

		#	△		
		#	△		

↓

L	K
L	K

⇒ L = #
K = △

		△	□		
		△	#		

↓

K	M
K	L

⇒ K = △
L = #
M = □

Cevap: A

7.

				○	#
				□	⊙
○	#				
#	⊙				

↓

L	K
K	M

⇒ L = ○
K = #
M = ⊙

L	K
N	M

⇒ K = #
M = ⊙
N = □

Cevap: A

6.

				÷	♥
				⊙	×
	÷	⊙			
	♥	♥			

↓

L	K
M	M

⇒ L = ÷
K = ⊙
M = ♥

L	M
K	N

⇒ N = ×

Cevap: D

8.

K	M
L	N

↑

	♥	⊙			
	△	□			
	△	♥			
	⊙	△			

↓

L	K
M	L

⇒ L = △
M = ⊙
K = ♥

Cevap: C

TEST - 3

1.

○	△	↓	△	□	□	△
△	△	□	○	○	△	□
□	○	△	□	□	○	↓
↓	□	π	π	△	π	△
π	↓	○	□	↓	□	□
π	↓	↓	○	↓	π	○
△	π	△	△	○	□	○

L	L
K	M
	K

K	M
L	N
	K

⇒ L = △ ⇒ M = ? , N = ?

	M	N
A)	○	↓
B)	π	○
C)	○	π
D)	↓	○
E)	↓	π

2.

○	⊆	□	★	△	÷	★
÷	□	○	★	○	#	#
★	⊆	#	□	⊆	△	○
⊆	#	△	△	÷	⊆	#
□	△	★	⊆	□	★	△
#	★	÷	#	#	○	□
△	÷	÷	○	#	□	÷

L	K
K	M

M	K
N	N

⇒ K = ★ ⇒ M = ? , N = ?

	M	N
A)	○	#
B)	÷	#
C)	⊆	#
D)	÷	⊆
E)	#	÷

3.

○	+	△	□	★	+	●
+	□	●	★	○	+	○
□	△	○	+	△	π	★
π	●	★	π	□	○	+
★	π	□	△	+	●	△
△	○	π	●	□	★	□
●	△	+	○	π	□	π

	L
L	K
K	M

	L
N	L
M	

⇒ L = + ⇒ N = ? , M = ?

	N	M
A)	△	○
B)	●	△
C)	△	●
D)	★	π
E)	○	△

4.

#	π	↗	Σ	△	+	π
↗	Σ	△	+	×	△	↗
π	↗	Σ	↗	#	Σ	+
Σ	+	×	π	△	π	#
×	△	#	×	↗	×	△
△	#	+	#	Σ	Σ	#
+	Σ	Σ	↗	π	△	Σ

L	K
M	
K	M

M	
K	
N	M

⇒ K = π ⇒ M = ? , N = ?

	M	N
A)	↗	×
B)	↗	△
C)	×	↗
D)	△	↗
E)	+	↗

TEST - 3

5.

π	□	⊙	+	△	~
~	π	⊙	△	□	□
+	△	□	⊙	π	~
~	⊙	π	□	△	+
△	△	⊙	□	π	□
□	□	⊙	+	~	△

L	K	M
	K	

M	K
N	M

⇒ K = ⊙ ⇒ N = ? , M = ?

- | | |
|----------|----------|
| <u>N</u> | <u>M</u> |
| A) ~ | □ |
| B) □ | π |
| C) π | ~ |
| D) π | □ |
| E) + | □ |

6.

↗	⊙	△	#	□	#
⊙	△	□	□	⊙	△
#	~	⊙	△	~	□
△	□	#	~	△	□
~	#	~	⊙	#	⊙
□	□	□	□	△	~

L	K
K	M
	L

	M
K	M
N	L

⇒ L = ⊙ ⇒ M = ? , N = ?

- | | |
|----------|----------|
| <u>M</u> | <u>N</u> |
| A) ↗ | □ |
| B) □ | # |
| C) # | ~ |
| D) ~ | ↗ |
| E) # | □ |

7.

+	×	π	⊙	×	□	#
□	*	□	#	*	×	⊙
×	□	*	π	⊙	π	+
π	π	×	□	#	*	×
#	#	⊙	×	π	⊙	□
⊙	*	+	+	□	+	*
*	+	*	*	+	#	π

L	K
	L
M	M

N	K
M	P

⇒ L = × ⇒ N = ? , P = ?

- | | |
|----------|----------|
| <u>N</u> | <u>P</u> |
| A) # | * |
| B) * | ⊙ |
| C) * | # |
| D) ⊙ | * |
| E) ⊙ | # |

8.

△	⊙	△	⊙	+	△	⊙
⊙	#	△	×	#	●	●
#	+	●	+	△	#	△
×	●	×	△	●	×	●
+	+	⊙	+	×	#	△
⊙	●	⊙	●	⊙	△	⊙
●	⊙	●	#	△	×	#

L	L
K	M

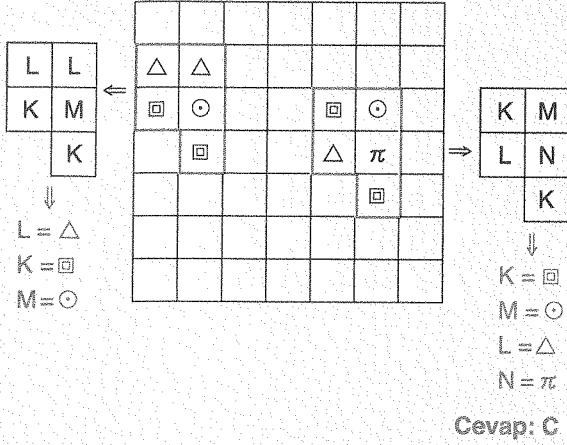
L	N
M	K

⇒ L = +, K = ⊙ ⇒ M = ? , N = ?

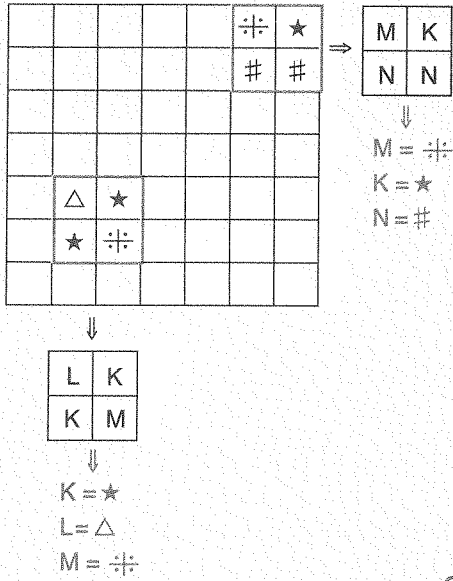
- | | |
|----------|----------|
| <u>M</u> | <u>N</u> |
| A) # | × |
| B) × | △ |
| C) △ | ● |
| D) × | ● |
| E) ● | × |

TEST - 3 ÇÖZÜMLER

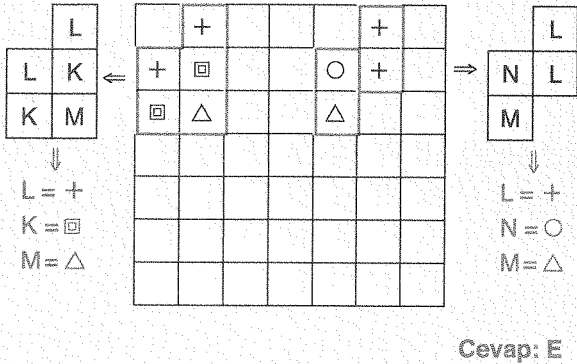
1.



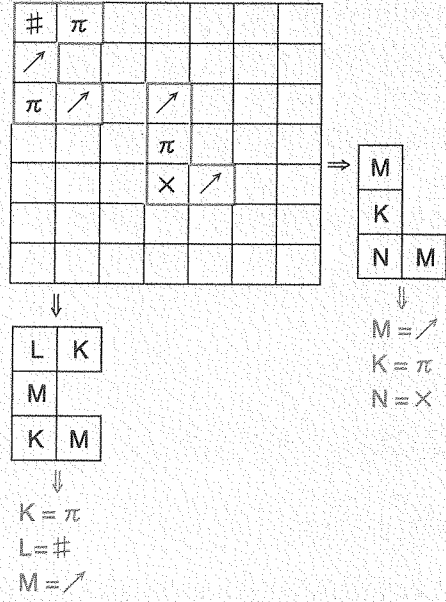
2.



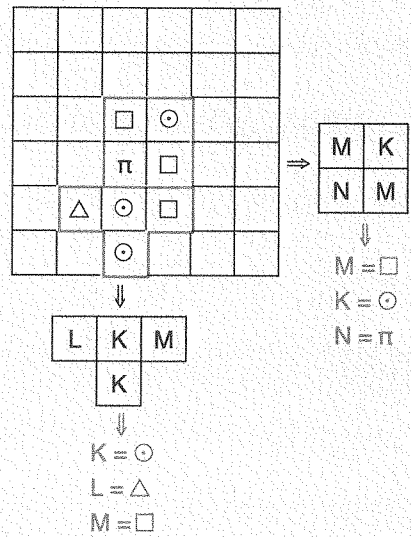
3.



4.

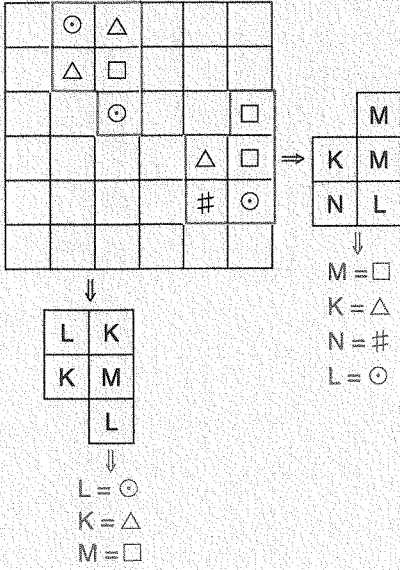


5.



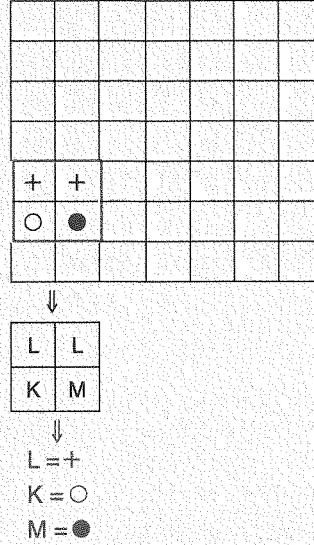
TEST - 3 ÇÖZÜMLER

6.

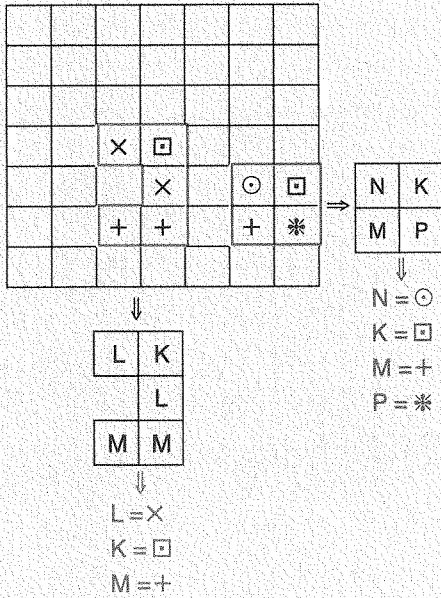


Cevap: B

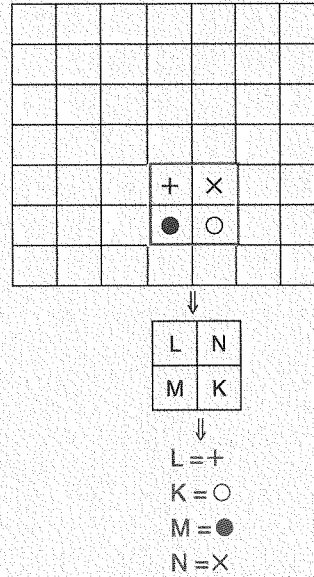
8.



7.



Cevap: D



Cevap: E

İŞLEM TABLOSU

(TRANSACTION TABLE)

TEST - 1

★	A	B	C	D	E
A	E	A	D	B	C
B	A	D	C	E	B
C	C	B	A	D	E
D	B	C	E	A	D
E	D	E	B	C	A

1. $(A \star C) \star [B \star (D \star E)] = ?$

- A) E B) D C) C D) B E) A

2. $[(A \star C) \star (D \star E)] \star [B \star (C \star E)] = ?$

- A) E B) D C) C D) A E) B

3. $\{E \star [(C \star D) \star B]\} \star ? = E$

- A) E B) B C) A D) D E) C

4. $(B \star C) \star \{[(E \star (E \star C)) \star ?]\} = B$

- A) A B) C C) B D) D E) E

●	1	3	5	7	9
1	9	7	1	5	3
3	1	9	7	3	5
5	7	3	5	1	9
7	3	5	9	7	1
9	5	1	3	9	7

5. $(1 \bullet 3) \bullet [(5 \bullet 1) \bullet 9] = ?$

- A) 1 B) 3 C) 5 D) 7 E) 9

6. $7 \bullet [(3 \bullet 1) \bullet (5 \bullet 7)] = ?$

- A) $5 \bullet 3$ B) $1 \bullet 5$ C) $1 \bullet 7$
D) $3 \bullet 5$ E) $7 \bullet 5$

7. $(3 \bullet 5) \bullet [? \bullet (9 \bullet 7)] = 1$

- A) 9 B) 1 C) 3 D) 5 E) 7

8. $[? \bullet (1 \bullet 3)] \bullet [(9 \bullet 7) \bullet 3] = 5$

- A) 1 B) 3 C) 5 D) 7 E) 9

TEST - 1

⊕	♥	★	○	□	△	#
♥	○	□	♥	△	#	★
★	□	○	#	★	♥	△
○	★	△	□	♥	○	#
□	#	★	△	○	□	♥
△	♥	#	★	□	△	○
#	△	♥	○	#	★	□

9. $[(\heartsuit \oplus \star) \oplus \square] \oplus (\triangle \oplus \#) = ?$

- A)
- $\triangle$
- B)
- $\heartsuit$
- C)
- $\star$
- D)
- $\square$
- E)
- $\circ$

10. $\{ \# \oplus [(\heartsuit \oplus \circ) \oplus \square] \} \oplus \triangle = ?$

- A)
- $\circ$
- B)
- $\square$
- C)
- $\heartsuit$
- D)
- $\star$
- E)
- $\triangle$

11. $\{ ? \oplus (\# \oplus \triangle) \} \oplus \{ \square \oplus (\circ \oplus \star) \} = \heartsuit$

- A)
- $\circ$
- B)
- $\star$
- C)
- $\triangle$
- D)
- $\square$
- E)
- $\heartsuit$

12. $[(\square \oplus \triangle) \oplus (\heartsuit \oplus \circ)] \oplus ? = \star$

- A)
- $\#$
- B)
- $\star$
- C)
- $\triangle$
- D)
- $\square$
- E)
- $\circ$

□	⊗	+	÷	×	#	△
⊗	÷	×	⊗	#	△	+
+	×	÷	△	+	⊗	#
÷	+	#	×	⊗	÷	△
×	△	+	#	÷	×	⊗
#	⊗	△	+	×	#	÷
△	#	⊗	÷	△	+	×

13. $\{ + \square [(\otimes \square \div) \square \#] \} \square \triangle = ?$

- A)
- $\triangle$
- B)
- $\otimes$
- C)
- $\times$
- D)
- $\#$
- E)
- $\div$

14. $[(+ \square \div) \square (\triangle \square \otimes)] \square (\# \square \times) = ?$

- A)
- $+$
- B)
- $\times$
- C)
- $\div$
- D)
- $\otimes$
- E)
- $\#$

15. $[(\otimes \square \div) \square ?] \square [(\times \square \#) \square \triangle] = +$

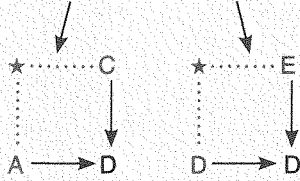
- A)
- $\#$
- B)
- $\triangle$
- C)
- $\times$
- D)
- $\otimes$
- E)
- $+$

16. $? \square (\div \square \otimes) = \#$

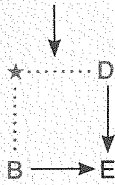
- A)
- $\triangle$
- B)
- $\otimes$
- C)
- $\div$
- D)
- $\times$
- E)
- $+$

TEST - 1 ÇÖZÜMLER

1. $(A \star C) \star [B \star (D \star E)]$



$= D \star [B \star D]$

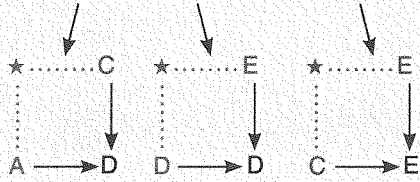


$= D \star E$

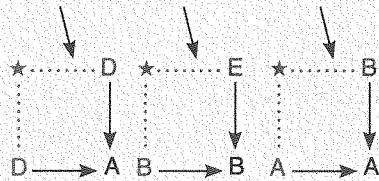


Cevap: B

2. $[(A \star C) \star (D \star E)] \star [B \star (C \star E)]$



$= [D \star D] \star [B \star E] = A \star B = A$

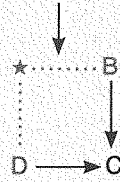


Cevap: D

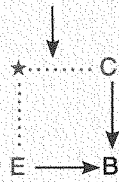
3. $\{E \star [(C \star D) \star B]\} \star ? = E$



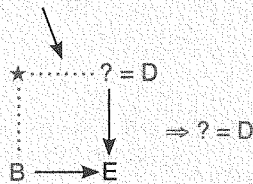
$\{E \star [D \star B]\} \star ? = E$



$\{E \star C\} \star ? = E$



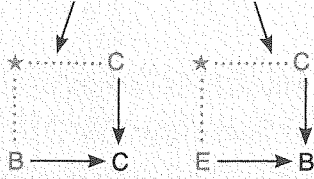
$B \star ? = E$



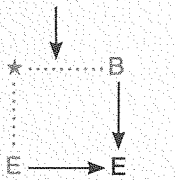
Cevap: D

TEST - 1 ÇÖZÜMLER

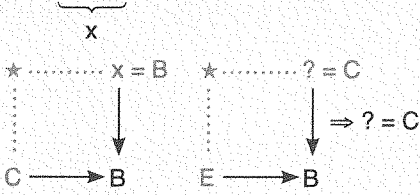
4. $(B \star C) \star \{[(E \star (E \star C)) \star ?]\} = B$



$C \star \{[(E \star B) \star ?]\} = B$

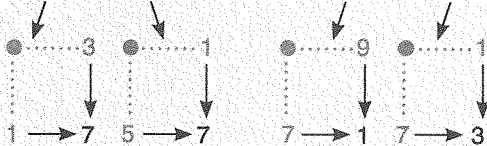


$C \star \{E \star ?\} = B \Rightarrow \{E \star ?\} = B$



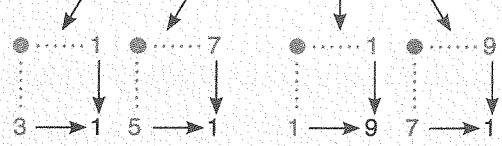
Cevap: B

5. $(1 \bullet 3) \bullet [(5 \bullet 1) \bullet 9] = 7 \bullet [7 \bullet 9] = 7 \bullet 1 = 3$

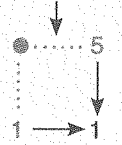


Cevap: B

6. $7 \bullet [(3 \bullet 1) \bullet (5 \bullet 7)] = 7 \bullet [1 \bullet 1] = 7 \bullet 9 = 1$

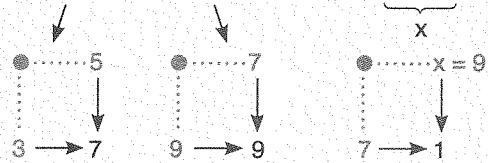


$\Rightarrow 1 \bullet 5 = 1$

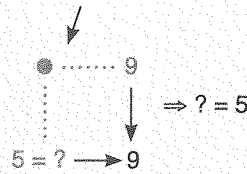


Cevap: B

7. $(3 \bullet 5) \bullet [? \bullet (9 \bullet 7)] = 1 \Rightarrow 7 \bullet [? \bullet 9] = 1$

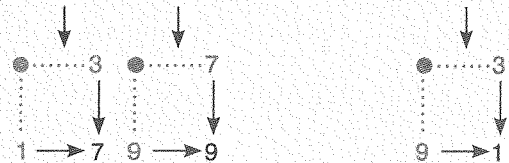


$\Rightarrow [? \bullet 9] = x = 9$

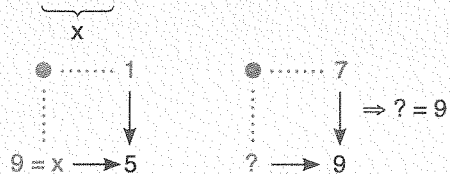


Cevap: D

8. $[? \bullet (1 \bullet 3)] \bullet [(9 \bullet 7) \bullet 3] = 5 \Rightarrow [? \bullet 7] \bullet [9 \bullet 3] = 5$



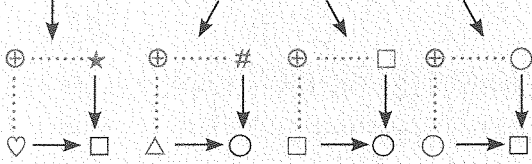
$\Rightarrow [? \bullet 7] \bullet 1 = 5 \Rightarrow [? \bullet 7] = x = 9$



Cevap: E

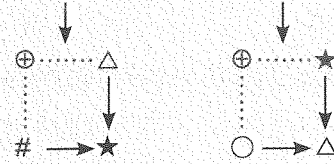
TEST - 1 ÇÖZÜMLER

9. $[(\heartsuit \oplus \star) \oplus \square] \oplus (\triangle \oplus \#) = [\square \oplus \square] \oplus \bigcirc = \bigcirc \oplus \bigcirc = \square$



Cevap: D

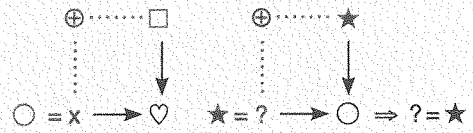
11. $\{? \oplus (\# \oplus \triangle)\} \oplus \{\square \oplus (\bigcirc \oplus \star)\} = \heartsuit$



$$\Rightarrow \{? \oplus \star\} \oplus \{\square \oplus \triangle\} = \heartsuit$$

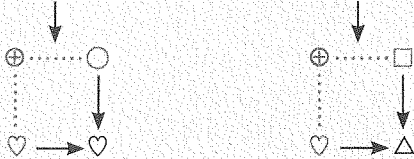


$$\underbrace{\{? \oplus \star\}}_x \oplus \square = \heartsuit \Rightarrow \{? \oplus \star\} = x = \bigcirc$$

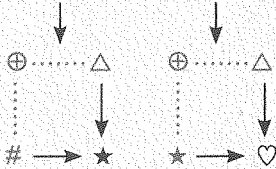


Cevap: B

10. $\{\# \oplus [(\heartsuit \oplus \bigcirc) \oplus \square]\} \oplus \triangle = \{\# \oplus [\heartsuit \oplus \square]\} \oplus \triangle$

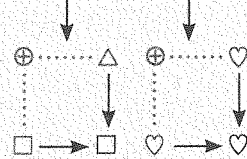


$$\Rightarrow \{\# \oplus \triangle\} \oplus \triangle = \star \oplus \triangle = \heartsuit$$

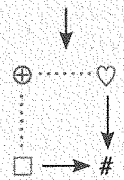


Cevap: C

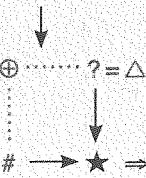
12. $[(\square \oplus \triangle) \oplus (\heartsuit \oplus \bigcirc)] \oplus ? = \star$



$$[\square \oplus \heartsuit] \oplus ? = \star$$



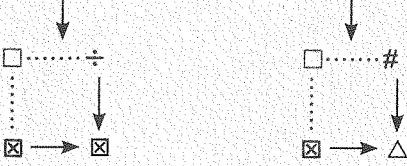
$$\# \oplus ? = \star$$



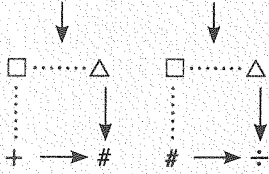
Cevap: C

TEST - 1 ÇÖZÜMLER

13. $\{+\square[(\boxtimes\square\div)\square\#]\}\square\Delta = \{+\square[\boxtimes\square\#]\}\square\Delta$

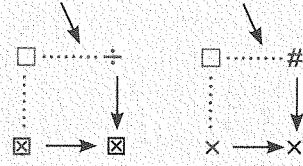


$$= \{+\square\Delta\}\square\Delta = \#\square\Delta = \div$$

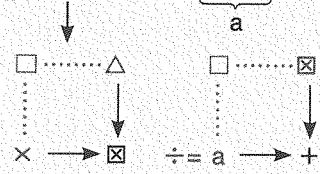


Cevap: E

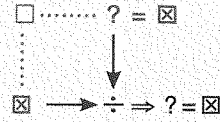
15. $[(\boxtimes\square\div)\square?]\square[(\times\square\#)\square\Delta] = +$



$$[\boxtimes\square?]\square[\times\square\Delta] = + \Rightarrow [\boxtimes\square?]\square\boxtimes = ?$$

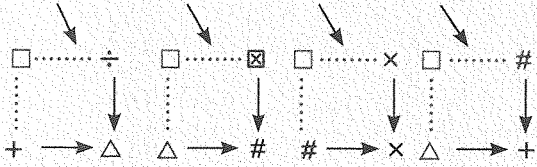


$$\Rightarrow [\boxtimes\square?] = a = \div$$

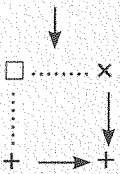


Cevap: D

14. $[(+\square\div)\square(\Delta\square\boxtimes)]\square(\#\square\times) = [\Delta\square\#]\square\times$

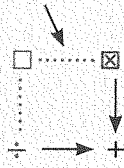


$$= +\square\times = +$$

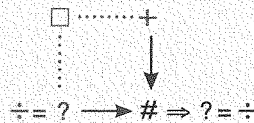


Cevap: A

16. $?\square(\div\square\boxtimes) = \#$



$$?\square + = \#$$



Cevap: C

TEST - 2

▲	1	2	3	4	5	6
1	6	1	2	3	4	5
2	1	2	3	4	5	6
3	2	3	4	5	6	1
4	3	4	5	6	1	2
5	4	5	6	1	2	3
6	5	6	1	2	3	4

1. $[1\blacktriangle(2\blacktriangle5)]\blacktriangle(2\blacktriangle6) = ?$

- A) 6 B) 5 C) 4 D) 2 E) 1

2. $\{3\blacktriangle[(1\blacktriangle6)\blacktriangle(4\blacktriangle5)]\}\blacktriangle(3\blacktriangle2) = ?$

- A) 6 B) 5 C) 3 D) 2 E) 1

3. $(3\blacktriangle3)\blacktriangle[(4\blacktriangle1)\blacktriangle?] = 6$

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

4. $[(4\blacktriangle2)\blacktriangle?]\blacktriangle[(6\blacktriangle1)\blacktriangle3] = 5$

- A) 3 B) 4 C) 5 D) 6 E) 1

+	■	●	▲	*	#	∅
■	▲	*	■	#	∅	●
●	*	▲	∅	●	■	#
▲	●	#	*	■	▲	∅
*	∅	●	#	▲	*	■
#	■	∅	●	*	#	▲
∅	#	■	▲	∅	●	*

5. $[\blacksquare + (\bullet + \#)] + (\emptyset + *) = ?$

- A) ● B) ▲ C) * D) ∅ E) #

6. $\{\blacktriangle + [(* + \bullet) + (\# + \blacksquare)]\} + \emptyset = ?$

- A) ▲ B) ■ C) * D) # E) ●

7. $[(\blacksquare + *) + (\blacktriangle + ?)] + (\# + \bullet) = \blacksquare$

- A) ● B) ▲ C) # D) ■ E) *

8. $\{* + (\blacktriangle + \blacksquare)\} + ? = \#$

- A) # B) * C) ∅ D) ■ E) ▲

TEST - 2

#	A	B	C	D	E	F
A	C	D	A	E	F	B
B	D	C	F	B	A	E
C	B	E	D	A	C	F
D	F	B	E	C	D	A
E	A	F	B	D	E	C
F	E	A	C	F	B	D

9. $[(A \# B) \# C] \# (D \# F) = ?$

- A) E B) D C) C D) B E) A

10. $\{F \# [(A \# D) \# (F \# C)]\} \# (B \# E) = ?$

- A) B B) C C) D D) E E) F

11. $[C \# (E \# F)] \# ? = A$

- A) E B) F C) A D) B E) C

12. $[(E \# F) \# ?] \# [A \# (B \# D)] = C$

- A) C#D B) A#C C) F#B D) F#F E) B#F

=	★	□	△	○	⊗	⊗
★	△	○	★	⊗	⊗	□
□	○	△	⊗	□	★	⊗
△	□	⊗	○	★	△	⊗
○	⊗	□	⊗	△	○	★
⊗	★	⊗	□	○	⊗	△
⊗	⊗	★	△	⊗	□	○

13. $(\star = \square) = (\triangle = \otimes) = ?$

- A) ⊗ B) □ C) △ D) ★ E) ○

14. $[\otimes = (\triangle = \star)] = (\circ = \circ) = ?$

- A) ⊗ B) ⊗ C) ○ D) ★ E) □

15. $[\otimes = (\star = \circ)] = (?) = \triangle$

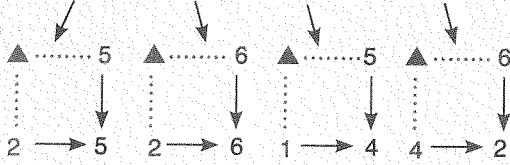
- A) ★ B) △ C) ⊗ D) ⊗ E) ○

16. $[(\otimes = \star) = \square] = (\triangle = ?) = \otimes$

- A) ★ B) ⊗ C) □ D) ⊗ E) ○

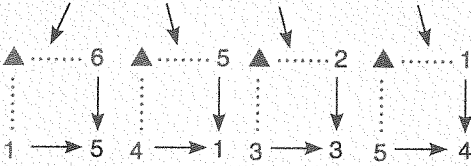
TEST - 2 ÇÖZÜMLER

1. $[1 \blacktriangle (2 \blacktriangle 5)] \blacktriangle (2 \blacktriangle 6) = [1 \blacktriangle 5] \blacktriangle 6 = 4 \blacktriangle 6 = 2$

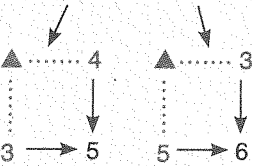


Cevap: D

2. $\{3 \blacktriangle [(1 \blacktriangle 6) \blacktriangle (4 \blacktriangle 5)]\} \blacktriangle (3 \blacktriangle 2) = \{3 \blacktriangle [5 \blacktriangle 1]\} \blacktriangle 3$

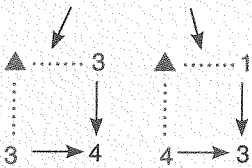


$$\{3 \blacktriangle 4\} \blacktriangle 3 = 5 \blacktriangle 3 = 6$$

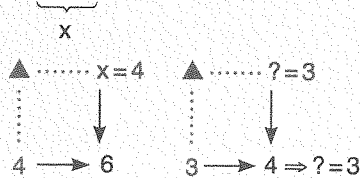


Cevap: A

3. $(3 \blacktriangle 3) \blacktriangle [(4 \blacktriangle 1) \blacktriangle ?] = 6$

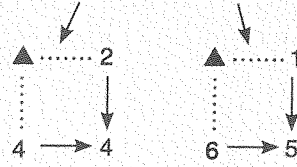


$$4 \blacktriangle [3 \blacktriangle ?] = 6 \Rightarrow 3 \blacktriangle ? = x = 4$$

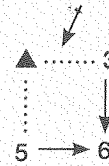


Cevap: B

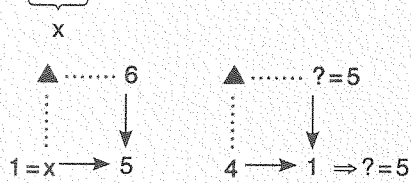
4. $[(4 \blacktriangle 2) \blacktriangle ?] \blacktriangle [(6 \blacktriangle 1) \blacktriangle 3] = 5$



$$[4 \blacktriangle ?] \blacktriangle [5 \blacktriangle 3] = 5$$

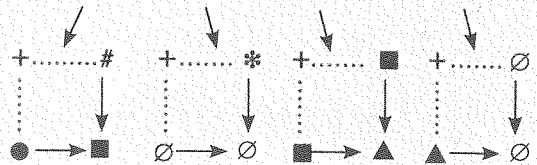


$$[4 \blacktriangle ?] \blacktriangle 6 = 5 \Rightarrow [4 \blacktriangle ?] = x = 1$$



Cevap: C

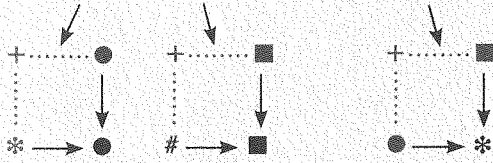
5. $[\blacksquare + (\bullet + \#)] + (\emptyset + *) = [\blacksquare + \blacksquare] + \emptyset = \blacktriangle + \emptyset = \emptyset$



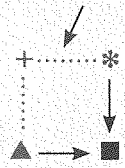
Cevap: D

TEST - 2 ÇÖZÜMLER

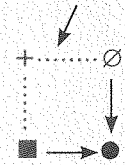
6. $\{\triangle + [(* + \bullet) + (\# + \blacksquare)]\} + \emptyset = \{\triangle + [\bullet + \blacksquare]\} + \emptyset$



$$= \{\triangle + * \} + \emptyset$$

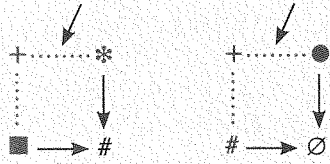


$$= \blacksquare + \emptyset = \bullet$$



Cevap: E

7. $[(\blacksquare + *) + (\triangle + ?)] + (\# + \bullet) = \blacksquare$



$$\underbrace{[\# + (\triangle + ?)] + \emptyset}_x = \blacksquare$$

$$* = x \rightarrow \blacksquare \Rightarrow [\# + (\triangle + ?)] = \blacksquare = x$$

$$\underbrace{[\# + (\triangle + ?)]}_a = \blacksquare$$

$$\Rightarrow (\triangle + ?) = \blacksquare = a$$

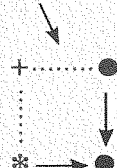
$$? = *$$

Cevap: E

8. $\{ * + (\triangle + \blacksquare) \} + ? = \#$



$$\{ * + \bullet \} + ? = \#$$



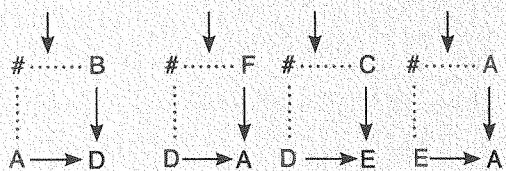
$$\bullet + ? = \#$$

$$? = \emptyset$$

$$\bullet \rightarrow \# \Rightarrow ? = \emptyset$$

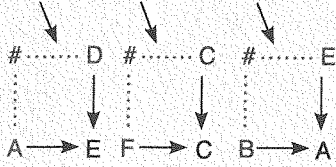
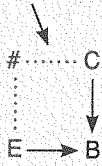
Cevap: C

9. $[(A \# B) \# C] \# (D \# F) = [D \# C] \# A = E \# A = A$

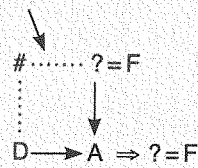


Cevap: E

TEST - 2 ÇÖZÜMLER

10. $\{F\#[(A\#D)\#(F\#C)]\}\#(B\#E)$  $=\{F\#[E\#C]\}\#A$  $=\{F\#B\}\#A$  $=A\#A=C$ 

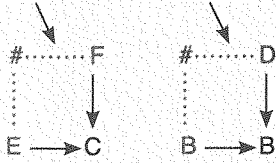
Cevap: B

11. $[C\#(E\#F)]\#?=A$  $[C\#C]\#?=A$  $D\#?=A$ 

Cevap: B

TEST - 2 ÇÖZÜMLER

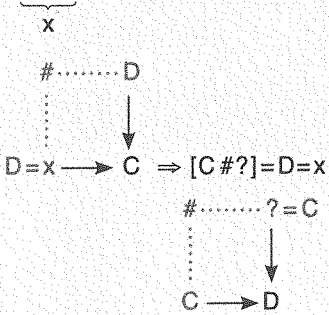
12. $[(E \# F) \# ?] \# [A \# (B \# D)] = C$



$[C \# ?] \# [A \# B] = C$



$[C \# ?] \# D = C$

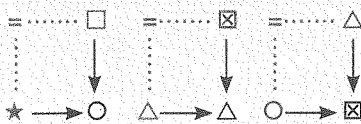


O halde $F \# F = D$



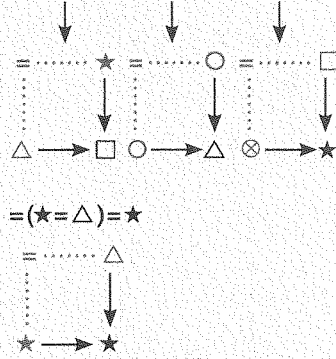
Cevap: D

13. $(\star = \square) = (\triangle = \boxtimes) = (\bigcirc = \triangle) = \boxtimes$



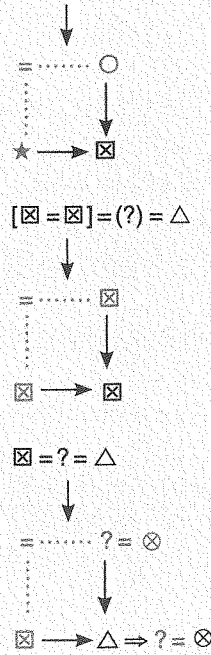
Cevap: A

14. $[\otimes = (\triangle = \star)] = (\bigcirc = \bigcirc) = [\otimes = \square] = \triangle$



Cevap: D

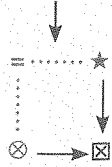
15. $[\boxtimes = (\star = \bigcirc)] = (?) = \triangle$



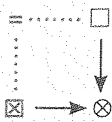
Cevap: C

TEST - 2 ÇÖZÜMLER

16. $[(\otimes = \star) = \square] = (\triangle = ?) = \boxtimes$

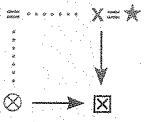


$$[\boxtimes = \square] = (\triangle = ?) = \boxtimes$$

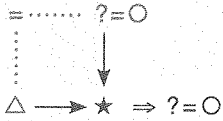


$$\otimes = (\triangle = ?) = \boxtimes$$

x



$$\Rightarrow (\triangle = ?) = \star = x$$

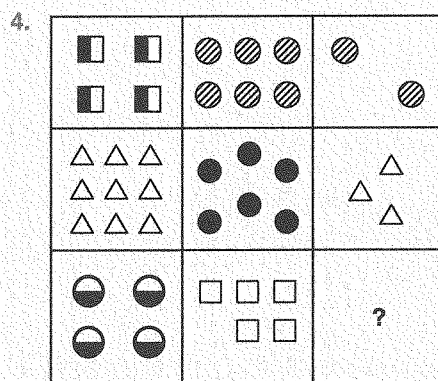
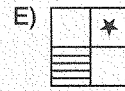
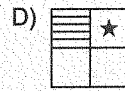
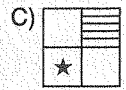
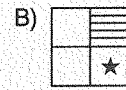
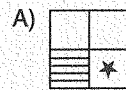
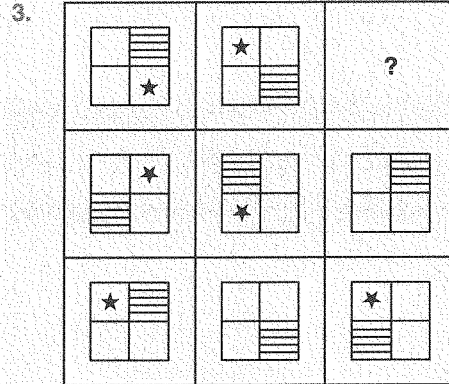
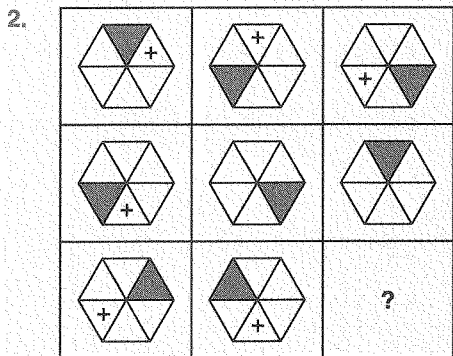
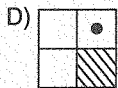
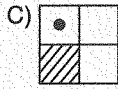
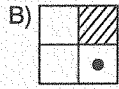
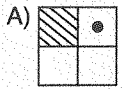
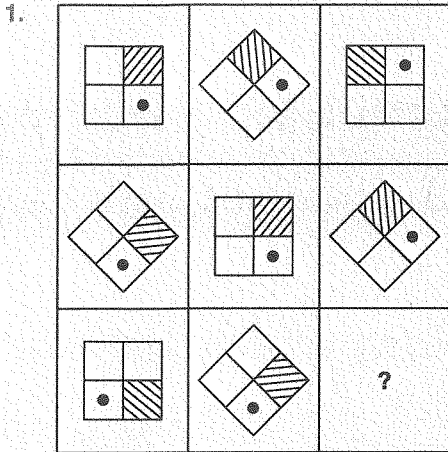


Cevap: E

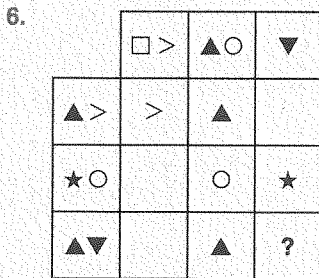
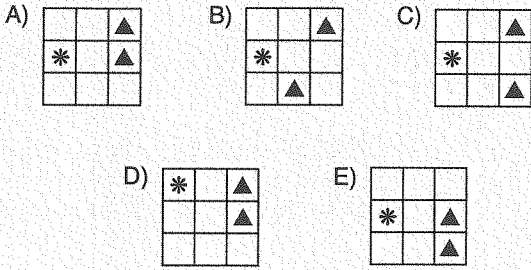
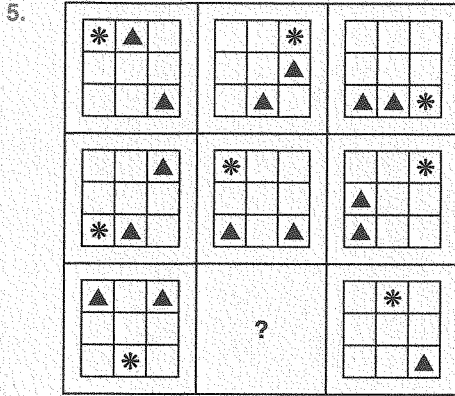
ŞEKİL MATRİSİ

(FIGURE MATRIX)

TEST - 1



TEST - 1

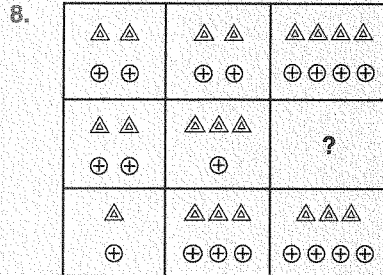


A) >○ B) ▼ C) ▲ D) ★○ E) □▲

7.

	klm	lnm	pln
lp	pkm	pnm	n
mlk		kn	?
kmn	nl	kl	kmpl

A) kmlp B) kpnm C) lpmk D) mpkn E) mkpn



A)         

B)        

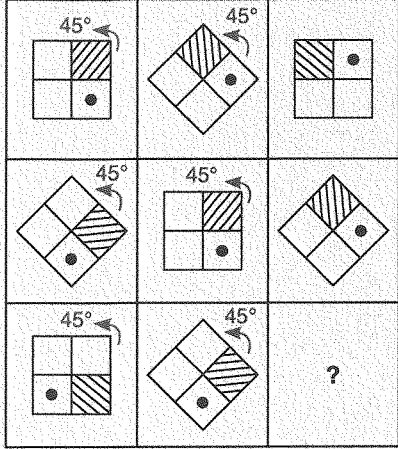
C)      

D)       

E)       

TEST - 1 ÇÖZÜMLER

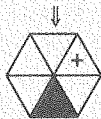
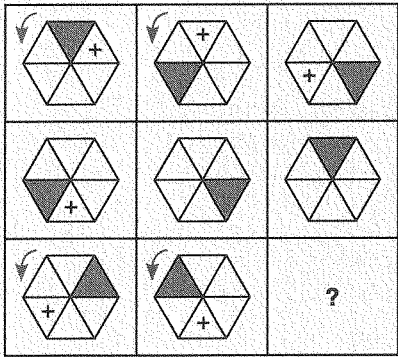
1.



Şekiller her adımda
ok yönünde
45° dönmüş.

Cevap: B

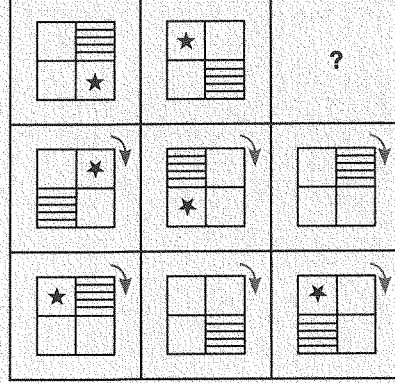
2.



▼ → sembolü ok yönünde her adımda iki bölme
ilerlemiş.
+ → sembolü ilk adımda bir, ikinci adımda iki bölme
ilerlemiş.

Cevap: C

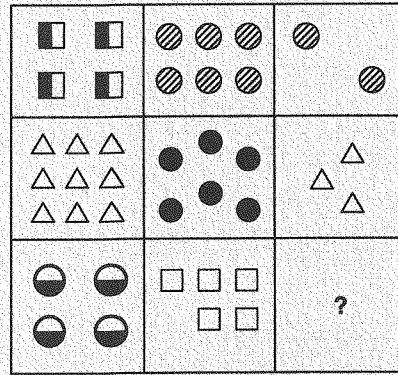
3.



★ → sembolü (↗) her adımda çapraz hücreye hare-
ket etmiş.
≡ → sembolü ilk adımda ok yönünde bir bölme yer
değiştirmiş.

Cevap: A

4.

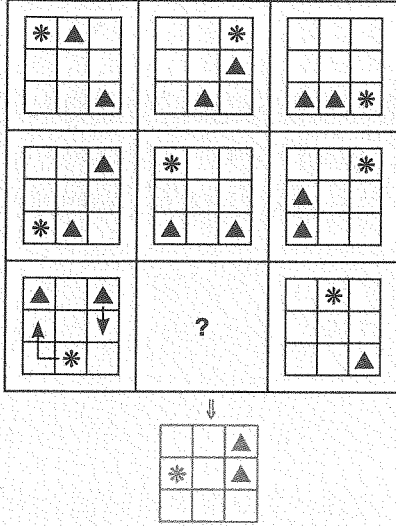


adet olarak 2 fazla adet olarak 3 fazla
→ 4 ■ 6 ● → 2 ● → 9 △ 6 ● → 3 △
adet olarak 1 fazla
→ 4 ● 5 □ → □

Cevap: D

TEST - 1 ÇÖZÜMLER

5.

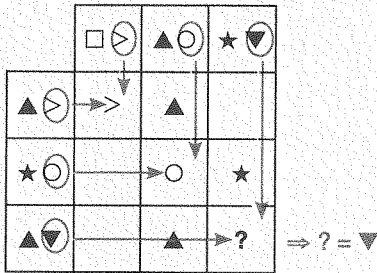


* → sembolü ok yönünde her adımda iki bölme ilerlemiş.

▲ → sembollerinden biri iki bölme diğeri de her adımda ok yönünde bir bölme hareket etmiş.

Cevap: A

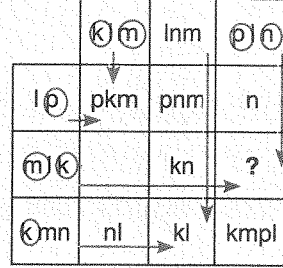
6.



Kesiştikleri yerde her ikisinde olan ortak sembol yazılmış.

Cevap: B

7.

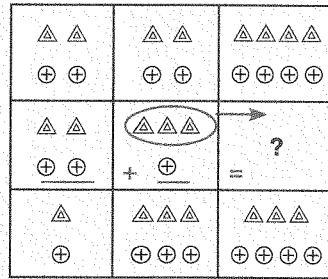


Kesiştikleri yerde her ikisinde olmayan sembolleri almış.

? = mkpn

Cevap: E

8.



⊕ → sembollerini ⊕⊕ + ⊕⊕⊕ = ⊕⊕⊕⊕⊕ toplamı üçüncü adıma yazmış.

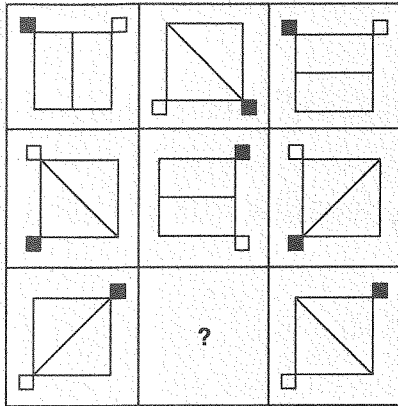
▲ → sembolleri ilk iki adımda eşit sayıdaysa toplamış, ilk iki adımda eşit sayıda değilse sayısı çok olan kadar üçüncü adıma yazmış.

⇒ ? = ▲▲▲
⊕⊕⊕

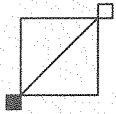
Cevap: C

TEST - 2

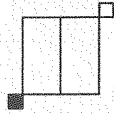
16



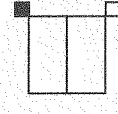
A)



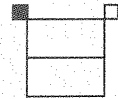
B)



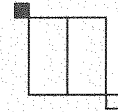
C)



D)



E)



2.

	ace	baf	cfb
abc	ac	ba	c
dca	a	af	fd
efa	ae	af	?

A) fa

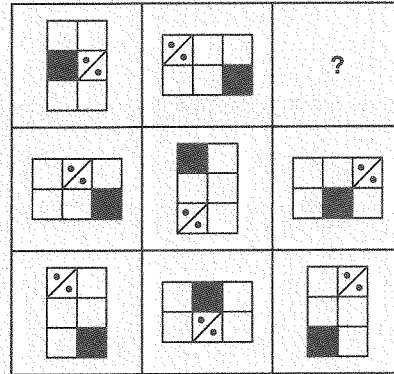
B) a

C) ef

D) f

E) da

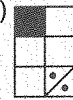
3.



A)



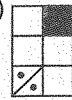
B)



c)



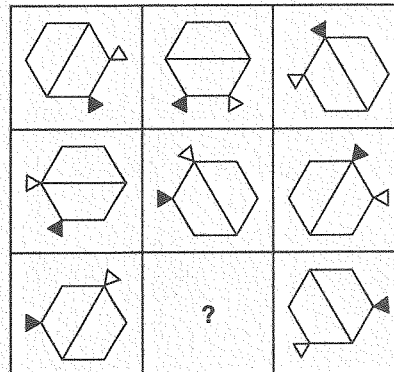
D)



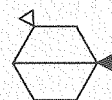
iii)



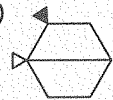
10. *Phragmites*



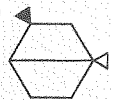
A)



B)



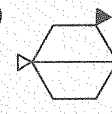
c)



D)

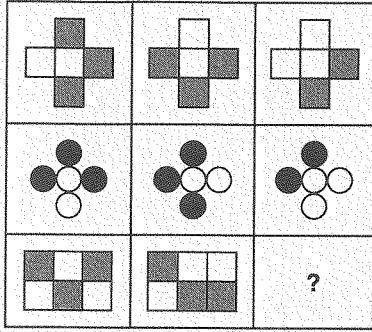


DE



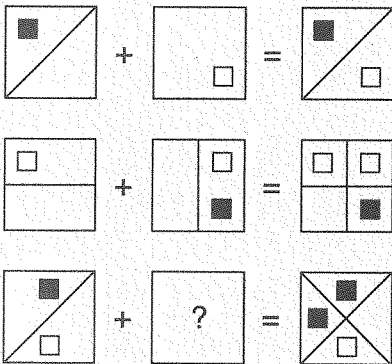
TEST - 2

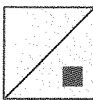
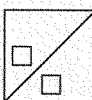
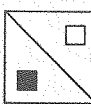
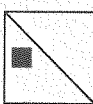
5.



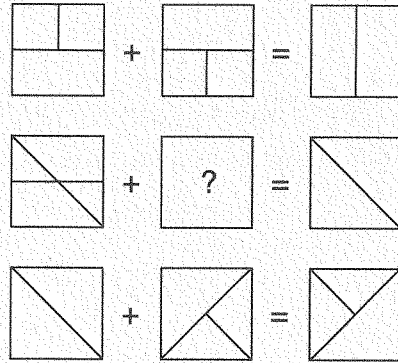
- A)  B)  C) 
 D)  E) 

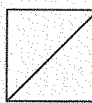
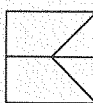
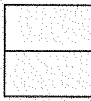
6.



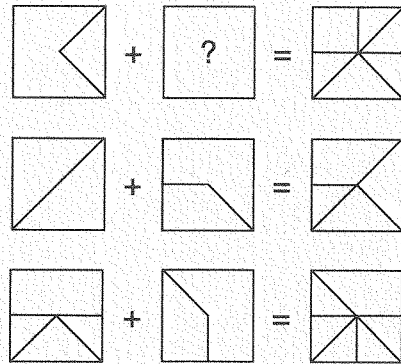
- A)  B)  C) 
 D)  E) 

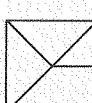
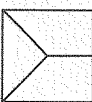
7.



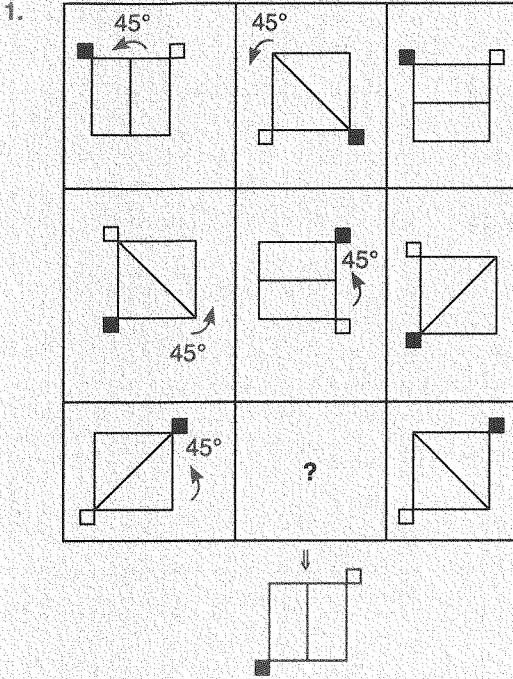
- A)  B)  C) 
 D)  E) 

8.



- A)  B)  C) 
 D)  E) 

TEST - 2 ÇÖZÜMLER



■ ve □ → sembolleri her adımda çaprazındaki köşeye hareket etmiş.

| sembolü her adımda ↻ ok yönünde 45° hareket etmiş.

Cevap: B

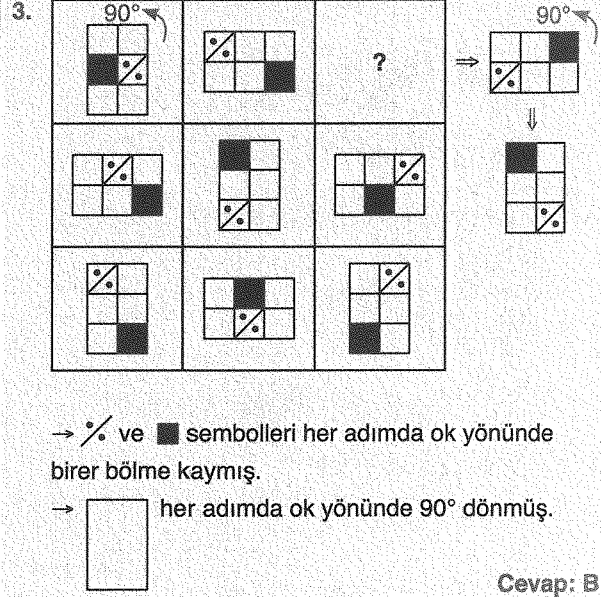
2.

	a@e	b@f	c@d
a@b	ac	ba	c
d@f	a	af	fd
e@f	ae	af	?

⇒ ? = f

⇒ Kesiştikleri yerde her ikisinde ortak olan harfler yazılmış.

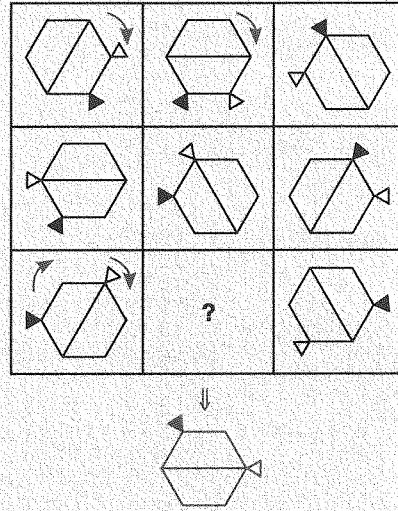
Cevap: D



→ / ve ■ sembolleri her adımda ok yönünde birer bölme kaymış.

→ her adımda ok yönünde 90° dönmüş.

Cevap: B

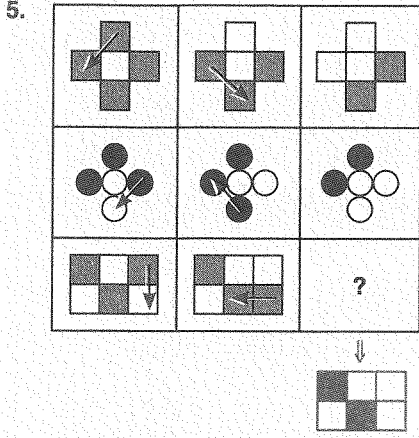


▲ ve △ → sembolleri ok yönünde ikinci adımda bir, üçüncü adımda iki köşe yer değiştiriyor.

/ → sembolü her adımda ok yönünde bir köşe yer değiştiriyor.

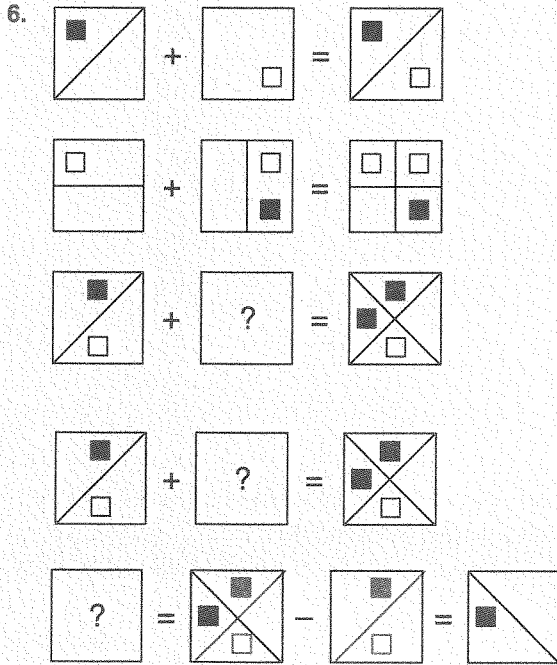
Cevap: C

TEST - 2 ÇÖZÜMLER

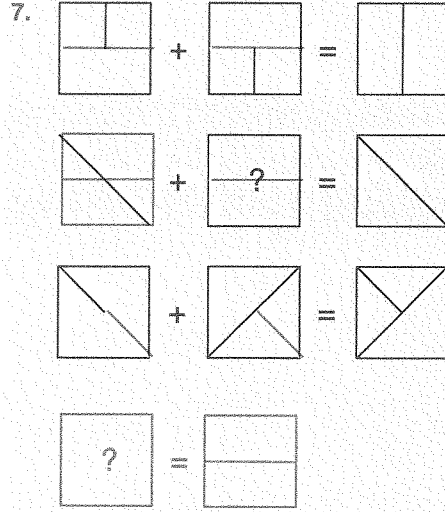


⇒ Sadece bir şekil her adımda aynı yönde bir bölme ilerlemiş.

Cevap: A

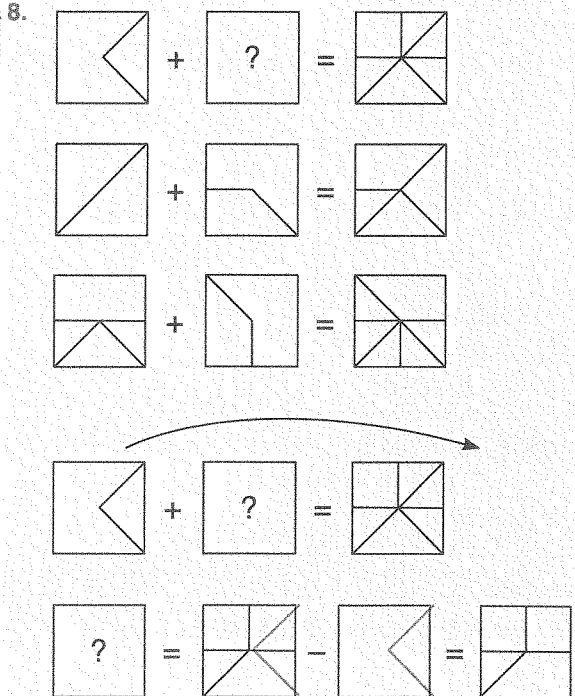


Cevap: E

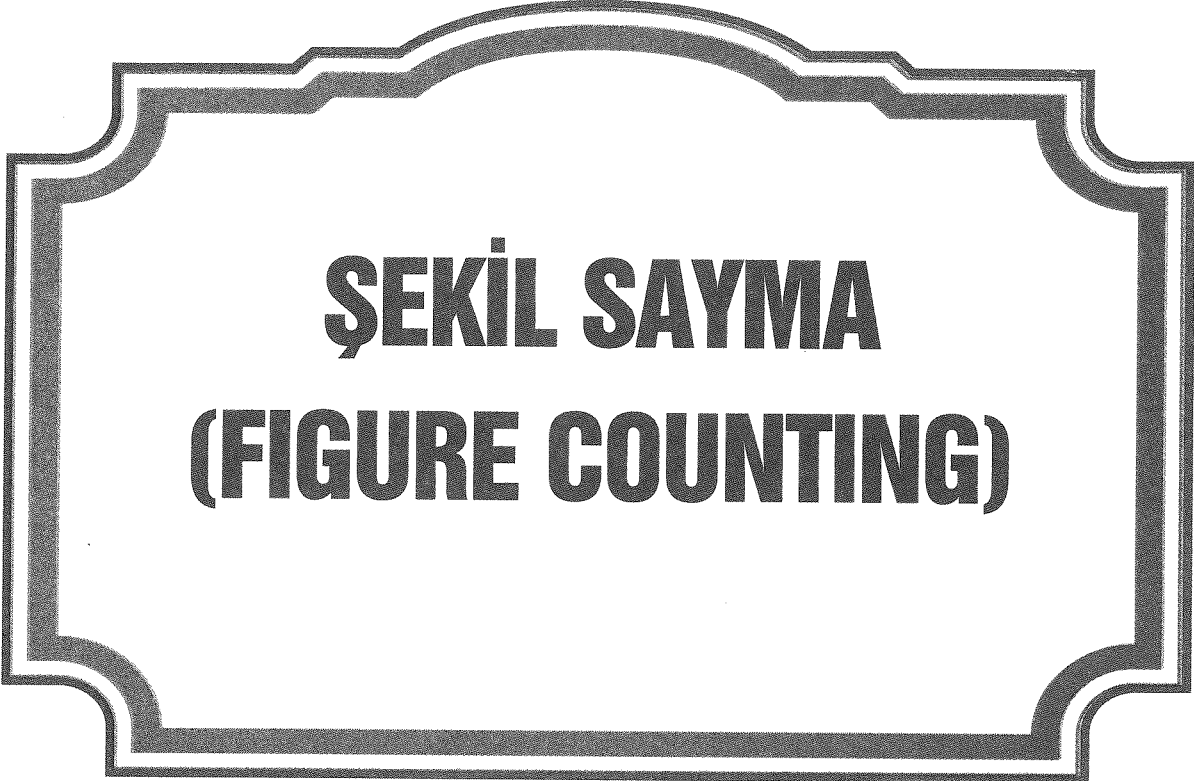


⇒ İki şekil üst üste konulmuş ortak olan kısımlar silinmiştir.

Cevap: E

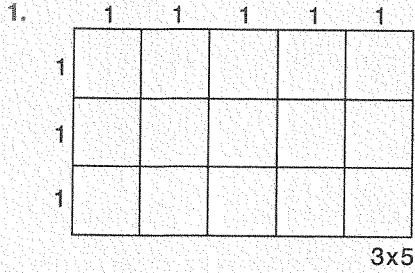


Cevap: D



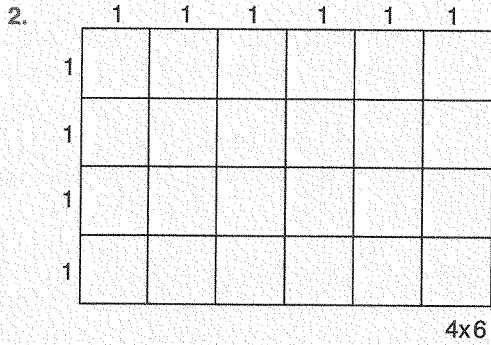
ŞEKİL SAYMA **(FIGURE COUNTING)**

TEST - 1

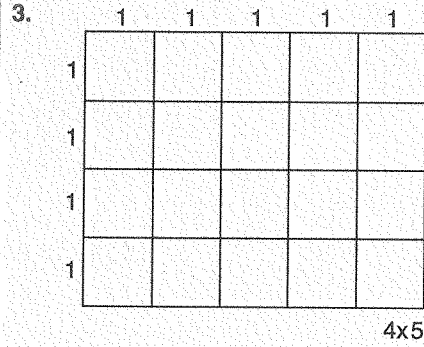


Şekilde kaç kare vardır?

- A) 16 B) 18 C) 20 D) 22 E) 26

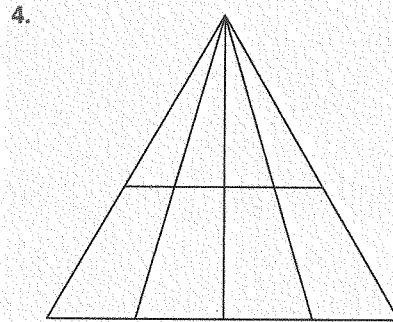


- A) 8 B) 9 C) 12 D) 16 E) 24



Şekilde kaç dikdörtgen vardır?

- A) 150 B) 140 C) 120 D) 110 E) 100

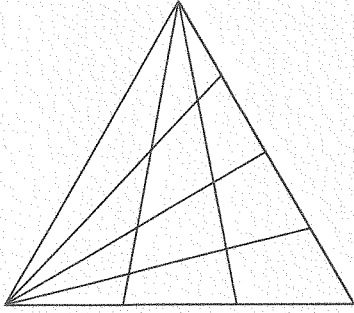


Şekilde kaç üçgen vardır?

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

TEST - 1

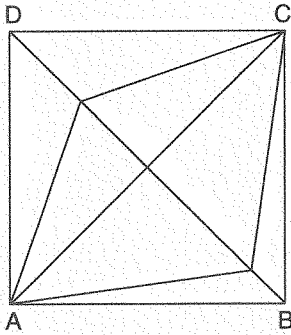
5.



Şekilde kaç üçgen vardır?

- A) 56 B) 52 C) 50 D) 46 E) 42

6.

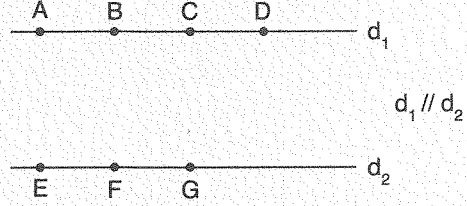


AC ve BD dörtgende köşelerdir.

Şekilde kaç tane üçgen vardır?

- A) 20 B) 22 C) 24 D) 26 E) 32

7.

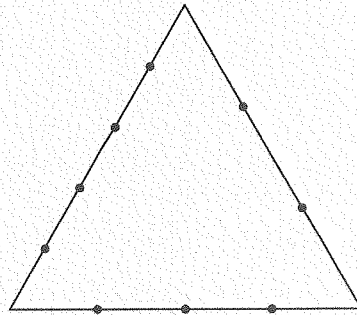


Şekildeki 7 nokta kullanılarak kaç farklı üçgen oluşturulabilir?

- A) 40 B) 38 C) 35 D) 32 E) 30

TASARI AKADEMİ YAYINLARI

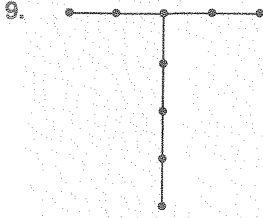
8.



Şekildeki noktalar kullanılarak kaç farklı üçgen çizilebilir?

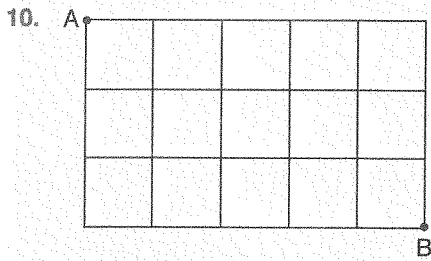
- A) 72 B) 74 C) 76 D) 79 E) 84

TEST - 1



Şekildeki noktalar kullanılarak kaç üçgen çizilebilir?

- A) 46 B) 54 C) 60 D) 64 E) 84



A noktasından B noktasına en kısa yollar kullanılarak kaç farklı şekilde gidilebilir?

- A) 42 B) 48 C) 56 D) 62 E) 72

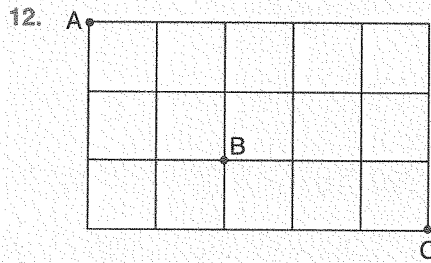
11.

T	A	S	A
A	S	A	R
S	A	R	I

T harfinden başlayarak kutucuk atlamadan TASARI kelimesi kaç farklı şekilde okunabilir?

- A) 8 B) 10 C) 12 D) 14 E) 16

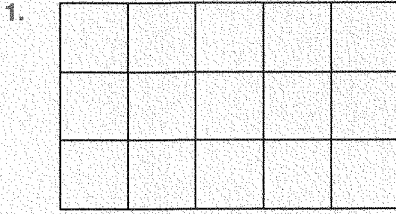
TASARI AKADEMİ YAYINLARI



A noktasından C noktasına, B noktasına uğrayarak en kısa yollardan kaç farklı şekilde gidilebilir?

- A) 20 B) 22 C) 24 D) 36 E) 48

TEST - 1 ÇÖZÜMLER

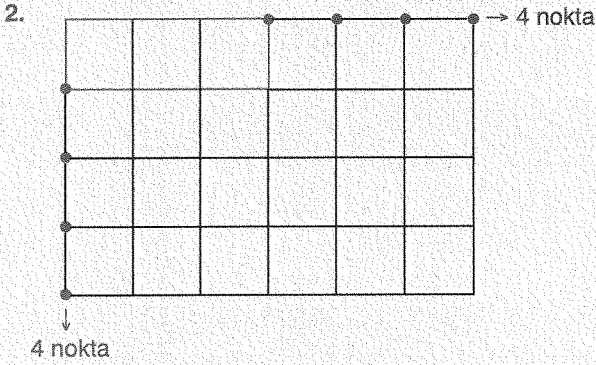


3x5

$$\text{Kare sayısı} = \underline{3.5} + \underline{2.4} + \underline{1.3} = 26$$

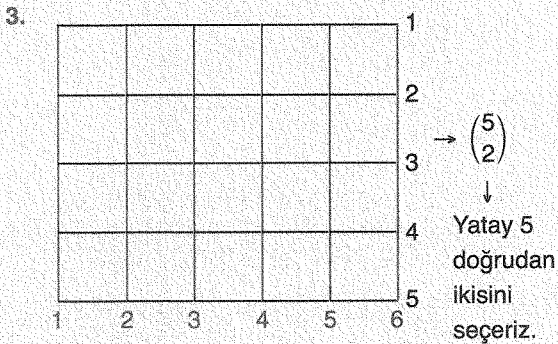
1'er azalarak gidiyor.

Cevap: E



$$\Rightarrow \boxed{} \rightarrow 4 \times 4 = 16$$

Cevap: D



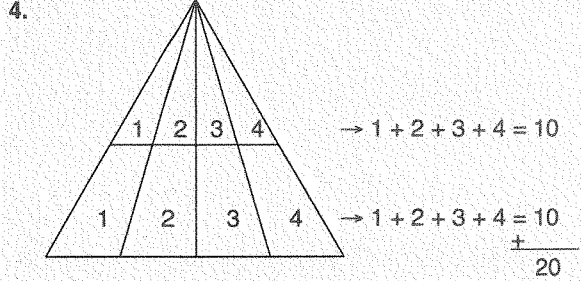
$$\rightarrow \binom{5}{2}$$

Yatay 5 doğruyan ikisini seçeriz.

$$\binom{6}{2} \rightarrow \text{Düşey 6 doğruyan ikisini seçeriz.}$$

$$\Rightarrow \binom{5}{2} \cdot \binom{6}{2} = 10 \cdot 15 = 150$$

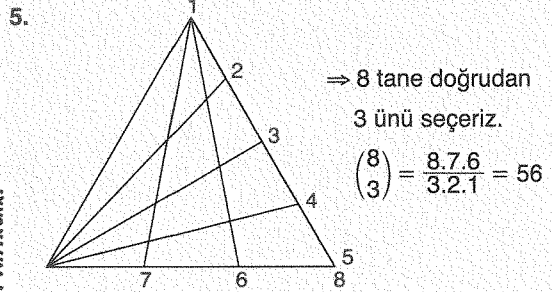
Cevap: A



$$\rightarrow 1 + 2 + 3 + 4 = 10$$

$$\rightarrow 1 + 2 + 3 + 4 = 10$$

Cevap: D

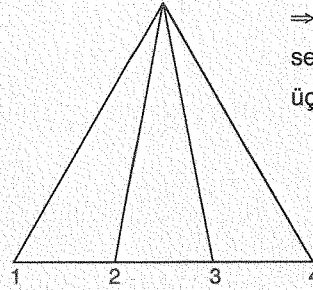


⇒ 8 tane doğruyan
3 ünü seçeriz.

$$\binom{8}{3} = \frac{8 \cdot 7 \cdot 6}{3 \cdot 2 \cdot 1} = 56$$

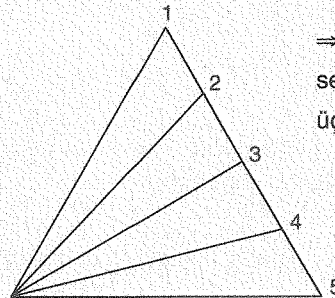
⇒ Bu dört doğruyan
seçilen 3 doğru
üçgen oluşturmaz.

$$\binom{4}{3} = 4$$



⇒ Bu beş doğruyan
seçilen 3 doğru
üçgen oluşturmaz.

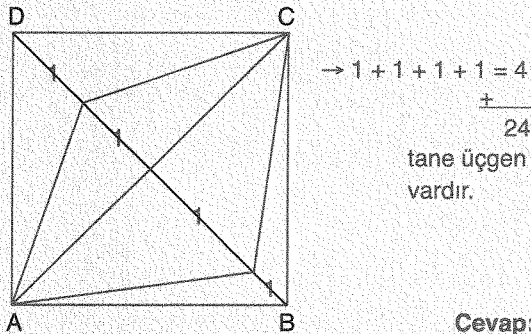
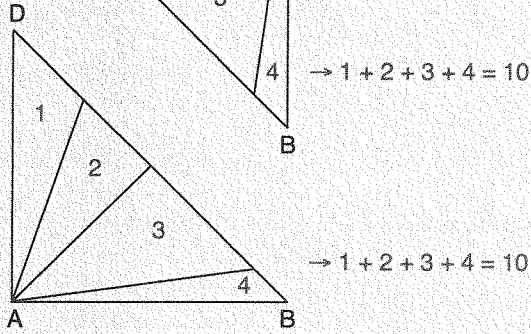
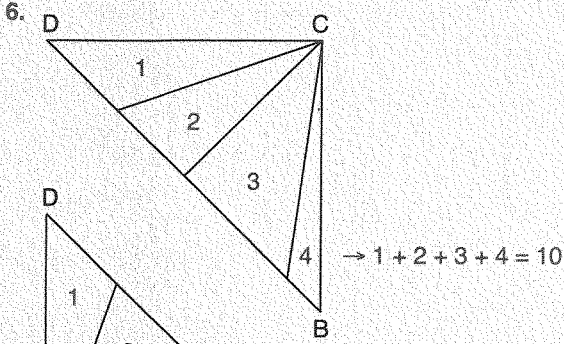
$$\binom{5}{3} = 10$$



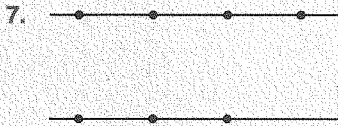
$$\text{O halde } \binom{8}{3} - \binom{4}{3} - \binom{5}{3} = 56 - 4 - 10 = 42$$

Cevap: E

TEST - 1 ÇÖZÜMLER



Cevap: C



Koşulsuz 7 noktadan seçilebilecek 3 nokta sayısı

$$\binom{7}{3} = \frac{7 \cdot 6 \cdot 5}{3 \cdot 2 \cdot 1} = 35$$



4 noktadan seçilen 3 nokta üçgen oluşturmaz.

$$\binom{4}{3} = 4$$



3 noktadan seçilen 3 nokta üçgen oluşturmaz.

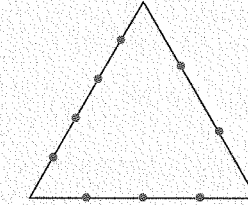
$$\binom{3}{3} = 1$$

O halde $35 - 4 - 1 = 30$ tane üçgen çizilebilir.

Cevap: E

8. Koşulsuz 9 noktadan seçilebilecek 3 nokta sayısı

$$\binom{9}{3} = \frac{9 \cdot 8 \cdot 7}{3 \cdot 2 \cdot 1} = 84$$



→ 3 noktadan seçilen 3 nokta üçgen oluşturmaz.

↓ 4 noktadan seçilen 3 nokta üçgen oluşturmaz.

$$\binom{4}{3} = 4$$

O halde $84 - 4 - 1 = 79$ farklı üçgen çizilebilir.

Cevap: D

9. Koşulsuz 9 noktadan seçilebilecek 3 nokta sayısı

$$\binom{9}{3} = \frac{9 \cdot 8 \cdot 7}{3 \cdot 2 \cdot 1} = 84$$



→ 5 noktadan seçilen 3 nokta üçgen oluşturmaz.

$$\binom{5}{3} = 10$$



→ 5 noktadan seçilen 3 nokta üçgen oluşturmaz.

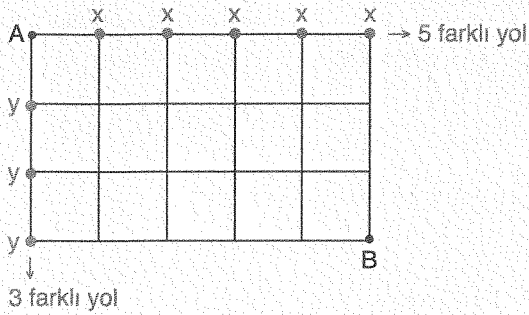
$$\binom{5}{3} = 10$$

O halde $84 - 10 - 10 = 64$ üçgen çizilebilir.

Cevap: D

TEST - 1 ÇÖZÜMLER

10.



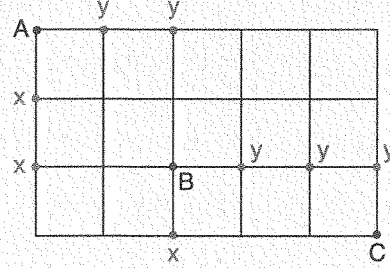
(xxxxx) (yyy) farklı sıralanışların sayısı gidilebilecek toplam yol sayısını verir.

$$\Rightarrow \frac{8!}{5! \cdot 3!} = \frac{8 \cdot 7 \cdot 6 \cdot 5!}{5! \cdot 3!} = \frac{8 \cdot 7 \cdot 6}{6} = 56 \text{ farklı yol}$$

5 tane x 3 tane y
tekrar etmiş tekrar etmiş

Cevap: C

12.



A → B

xxyy

$$\frac{4!}{2! \cdot 2!} = 6$$

B → C

xyyy

$$\frac{4!}{3!} = 4$$

O halde A → B → C

$$6 \cdot 4 = 24$$

Cevap: C

11.

	y	y	y	
x	T	A	S	A
x	A	S	A	R
	S	A	R	I

$$\Rightarrow \frac{2}{xx} \frac{3}{yyy}$$

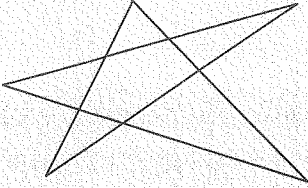
sıralanışlarının sayısı

$$\frac{5!}{2! \cdot 3!} = 10$$

Cevap: B

TEST - 2

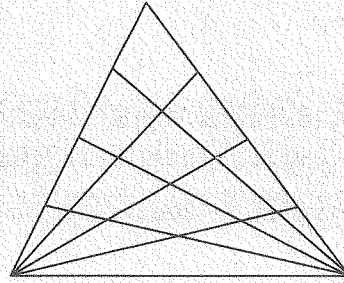
1.



Şekilde kaç tane üçgen vardır?

- A) 7 B) 8 C) 9 D) 10 E) 12

3.

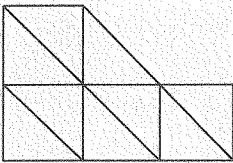


Şekilde kaç üçgen vardır?

- A) 54 B) 56 C) 58 D) 64 E) 72

TASARI AKADEMİ YAYINLARI

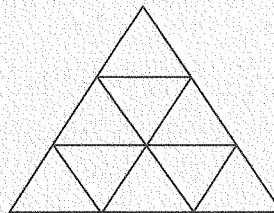
2.



Şekilde kaç tane üçgen vardır?

- A) 7 B) 8 C) 9 D) 10 E) 11

4.

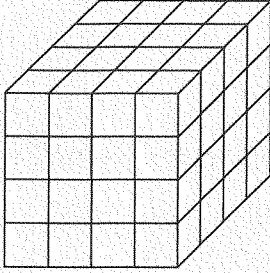


Şekilde kaç üçgen vardır?

- A) 15 B) 14 C) 13 D) 11 E) 10

TEST - 2

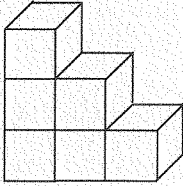
5.



64 birim küpten oluşan şekildeki küpte kaç farklı küp vardır?

- A) 84 B) 88 C) 92 D) 96 E) 100

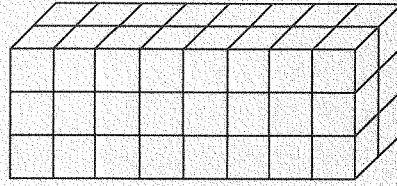
6.



Özdeş küplerden oluşmuş yukarıdaki şekilde kaç tane dikdörtgen prizması vardır?

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

7.



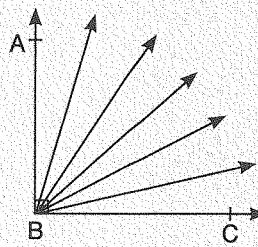
Verilen şekil özdeş küplerden oluşmuştur.

Buna göre şekilde kaç tane dikdörtgenler prizması vardır?

- A) 576 B) 618 C) 636 D) 640 E) 648

TASARI AKADEMİ YAYINLARI

8.

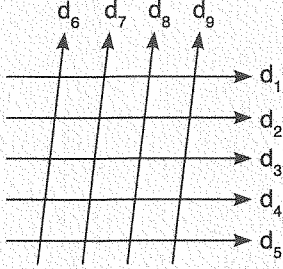


$m(\widehat{ABC}) = 90^\circ$ ise şekilde kaç farklı dar açı vardır?

- A) 13 B) 20 C) 21 D) 22 E) 24

TEST - 2

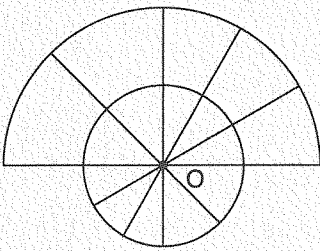
9.



$d_1 // d_2 // d_3 // d_4 // d_5$ ve $d_6 // d_7 // d_8 // d_9$ olduğuna göre şekilde kaç farklı paralelkenar vardır?

- A) 52 B) 54 C) 56 D) 60 E) 64

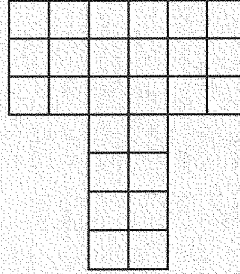
10.



O merkez olmak üzere şekilde kaç tane daire dilimi vardır?

- A) 90 B) 95 C) 100 D) 105 E) 110

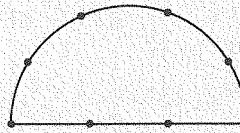
11.



Şekilde kaç tane dikdörtgen vardır?

- A) 188 B) 190 C) 192 D) 200 E) 210

12.

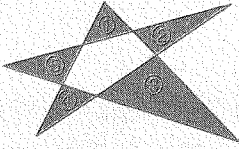


Şekilde kaç tane dörtgen vardır?

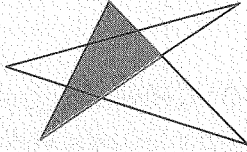
- A) 51 B) 52 C) 53 D) 54 E) 55

TEST - 2 ÇÖZÜMLER

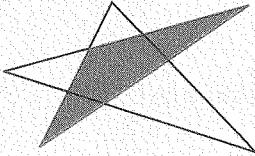
1.



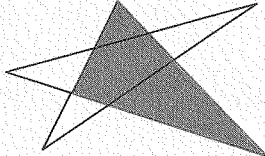
→ 5 tane



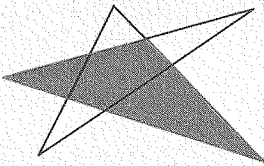
→ 1 tane



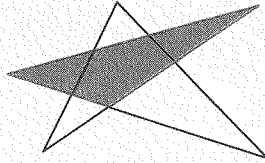
→ 1 tane



→ 1 tane



→ 1 tane

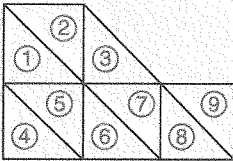


→ 1 tane

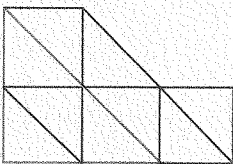
Toplam 10 tane

Cevap: D

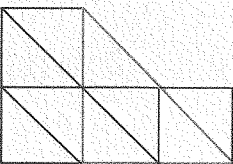
2.



→ 9 tane



→ 1 tane

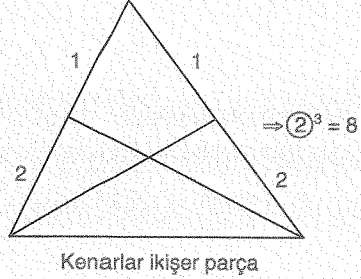
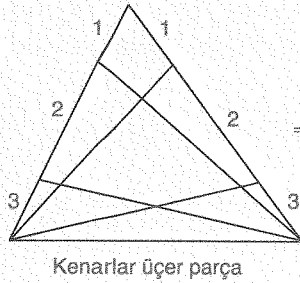


→ 1 tane

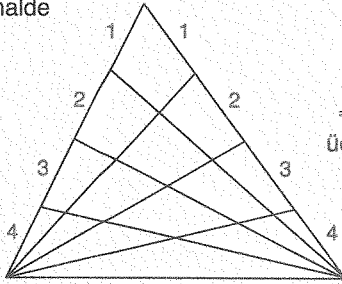
+ _____
11 tane

Cevap: E

3.

 $\Rightarrow 2^3 = 8$  $\Rightarrow 3^3 = 27$

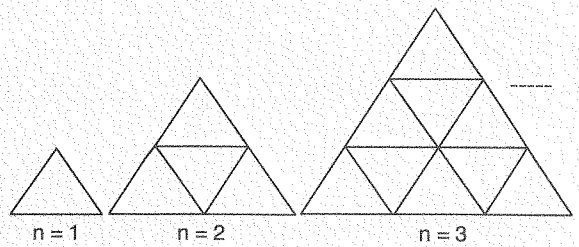
O halde

 $\Rightarrow 4^3 = 64$
üçgen vardır.

Kenarlar dörder parça

Cevap: D

4.



$$\Rightarrow \begin{cases} \frac{1}{8} n \cdot (n+2) \cdot (n+1), & n \text{ çift ise} \\ \frac{1}{8} (n \cdot (n+2) \cdot (2n+1) - 1), & n \text{ tek ise} \end{cases}$$

O halde; $n = 3$ tek

$$\frac{1}{8} (3 \cdot 5 \cdot 7 - 1) = \frac{1}{8} \cdot 104 = 13 \text{ tane üçgen vardır.}$$

Cevap: C

TEST - 2 ÇÖZÜMLER

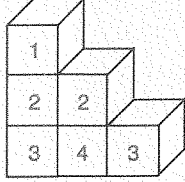
5. $n \times n \times n$ birim küpten oluşan bir küpte

$$\left[\frac{n \cdot (n+1)}{2} \right]^2 \text{ farklı küp vardır.}$$

O halde $n = 4$ için $\left[\frac{4 \cdot 5}{2} \right]^2 = 100$ farklı küp vardır.

Cevap: E

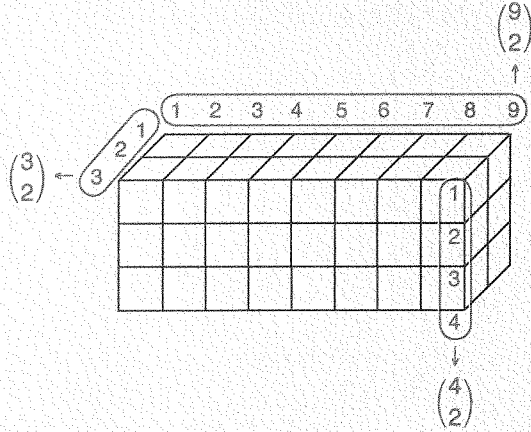
6.



$$\Rightarrow 1 + 2 + 2 + 3 + 4 + 3 = 15 \text{ tane}$$

Cevap: C

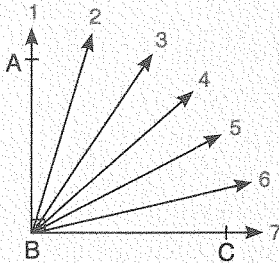
7.



$$\Rightarrow \binom{3}{2} \cdot \binom{4}{2} \cdot \binom{9}{2} = 3 \cdot 6 \cdot 36 = 648 \text{ tane}$$

Cevap: E

8.



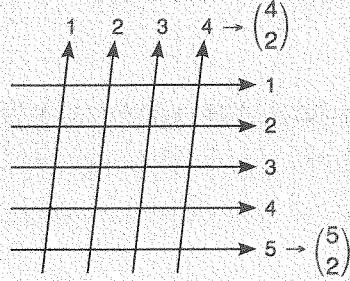
$$\Rightarrow \binom{7}{2} - 1 = \frac{7 \cdot 6}{2 \cdot 1} - 1 = 21 - 1 = 20$$

$$\downarrow$$

$$m(\widehat{ABC}) = 90^\circ$$

Cevap:

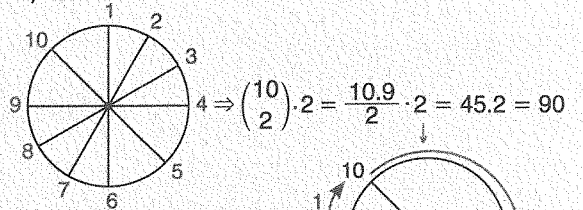
9.



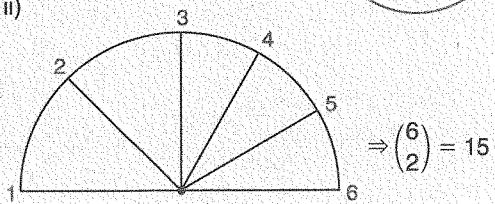
$$\text{O halde } \binom{4}{2} \cdot \binom{5}{2} = 6 \cdot 10 = 60$$

Cevap: D

10. i)



ii)

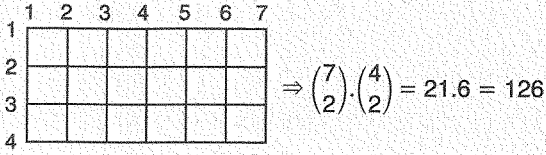


O halde $90 + 15 = 105$ daire dilimi vardır.

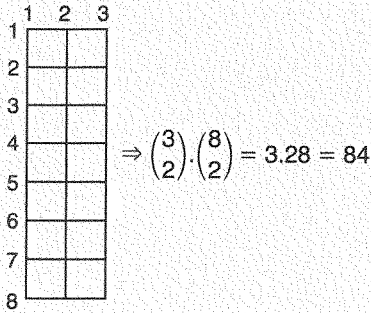
Cevap: D

TEST - 2 ÇÖZÜMLER

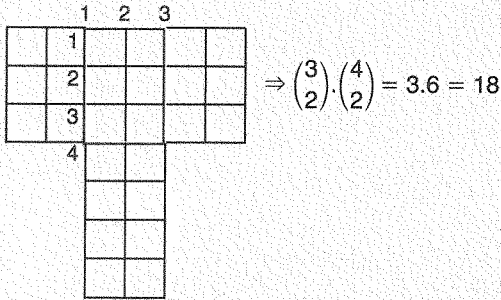
11. i)



ii)



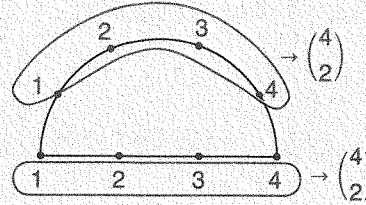
iii)



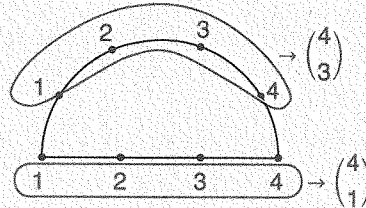
O halde $126 + 84 - 18 = 210 - 18 = 192$ dikdörtgen vardır.

Cevap: C

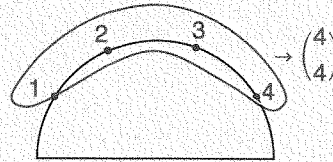
12.



$$\text{i) } \binom{4}{2} \cdot \binom{4}{2} = 6 \cdot 6 = 36$$



$$\text{ii) } \binom{4}{3} \cdot \binom{4}{1} = 4 \cdot 4 = 16$$



$$\text{iii) } \binom{4}{4} = 1$$

O halde;

$36 + 16 + 1 = 53$ dörtgen vardır.

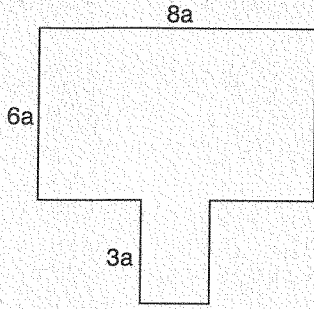
Cevap: C



ÇEVRE ve ALAN **(PERIMETER - AREA)**

TEST - 1

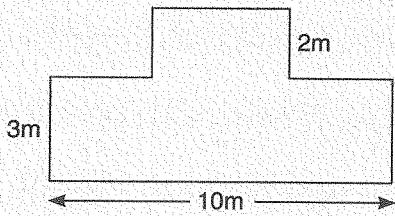
1.



⇒ Çevre / Perimeter = ?a

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

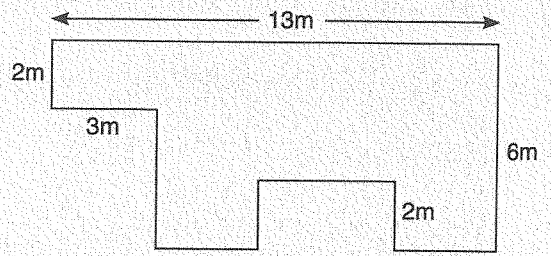
2.



⇒ Çevre / Perimeter = ?m

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

3.

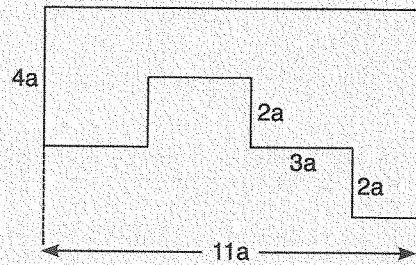


⇒ Çevre / Perimeter = ?m

- A) 34 B) 36 C) 38 D) 40 E) 42

TASARI AKADEMİ YAYINLARI

4.

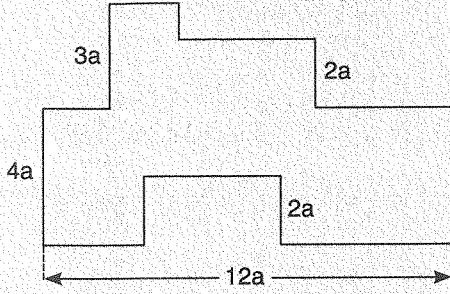


⇒ Çevre / Perimeter = ?a

- A) 32 B) 36 C) 38 D) 40 E) 44

TEST - 1

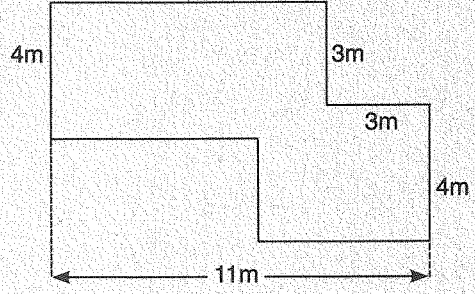
5.



⇒ Çevre / Perimeter = ?a

- A) 36 B) 38 C) 40 D) 42 E) 46

7.

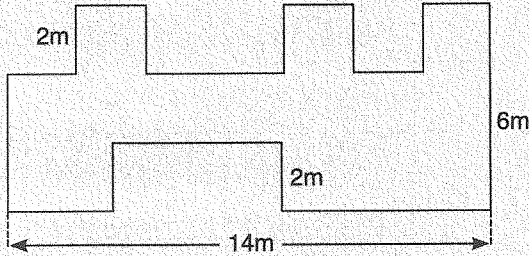


⇒ Çevre / Perimeter = ?m

- A) 34 B) 36 C) 37 D) 38 E) 40

TASARI AKADEMİ YAYINLARI

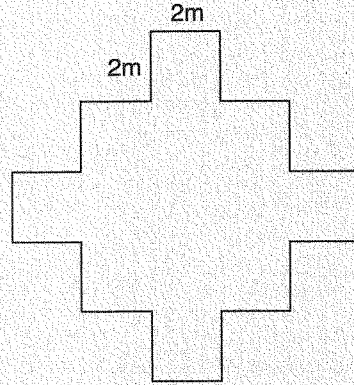
6.



⇒ Çevre / Perimeter = ?m

- A) 46 B) 48 C) 50 D) 51 E) 52

8.

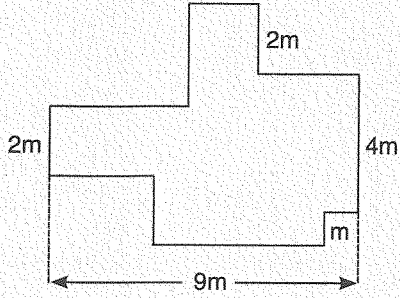


⇒ Çevre / Perimeter = ?m

- A) 34 B) 36 C) 38 D) 40 E) 42

TEST - 1

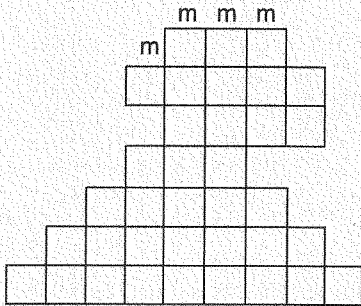
9.



⇒ Çevre / Perimeter = ?m

- A) 25 B) 26 C) 28 D) 32 E) 34

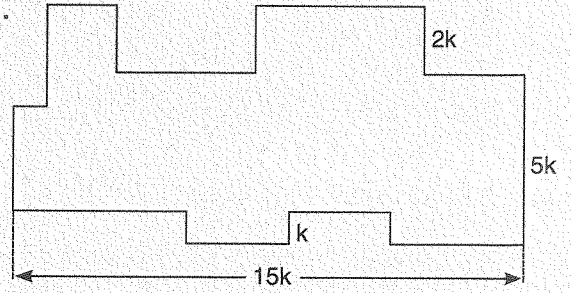
10.



⇒ Çevre / Perimeter = ?m

- A) 35 B) 36 C) 38 D) 42 E) 44

11.

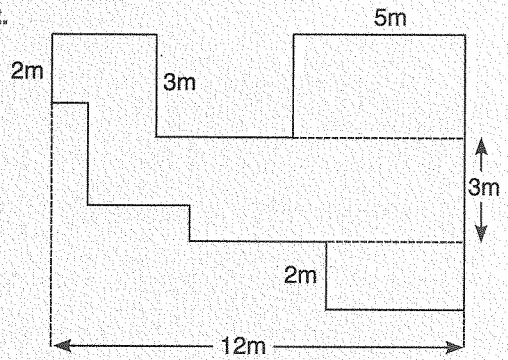


⇒ Çevre / Perimeter = ?k

- A) 44 B) 45 C) 47 D) 48 E) 50

TASARI AKADEMİ YAYINLARI

12.

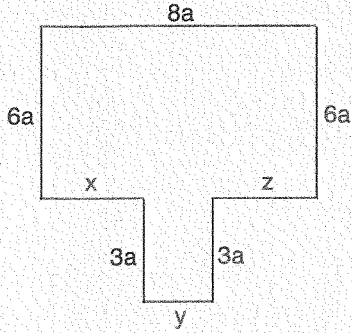


⇒ Çevre / Perimeter = ?m

- A) 42 B) 43 C) 44 D) 45 E) 46

TEST - 1 ÇÖZÜMLER

1.

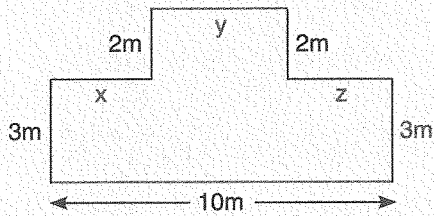


$$\Rightarrow x + y + z = 8a$$

$$\Rightarrow \text{Çevre} = 8a + 6a + 6a + 3a + 3a + \underbrace{x + y + z}_{8a} = 34a$$

Cevap: D

2.

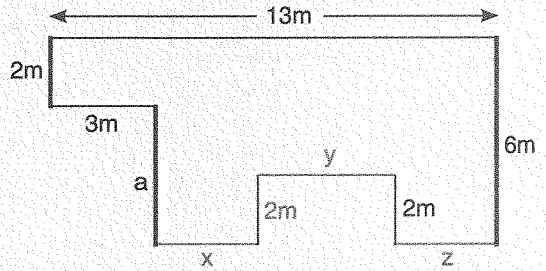


$$\Rightarrow x + y + z = 10m$$

$$\Rightarrow \text{Çevre} = 10m + 3m + 3m + 2m + 2m + \underbrace{x + y + z}_{10m} = 30m$$

Cevap: B

3.



$$\Rightarrow 3m + x + y + z = 13m$$

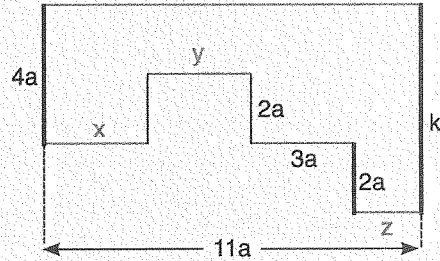
$$x + y + z = 10m$$

$$\Rightarrow 2m + a = 6m \Rightarrow a = 4m$$

$$\text{Ç} = 13m + 6m + 2m + 2m + 2m + 3m + \underbrace{a + x + y + z}_{10m} = 42m$$

Cevap: E

4.



$$\Rightarrow x + y + z + 3a = 11a$$

$$x + y + z = 8a$$

$$\Rightarrow 4a + 2a = k$$

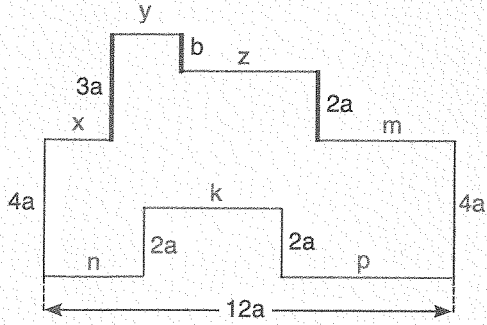
$$k = 6a$$

$$\text{Çevre} = 11a + 4a + 2a + 2a + 3a + 2a + \underbrace{k + x + y + z}_{8a} = 38a$$

Cevap: C

TEST - 1 ÇÖZÜMLER

5.



$$\Rightarrow x + y + z + m = 12a$$

$$n + k + p = 12a$$

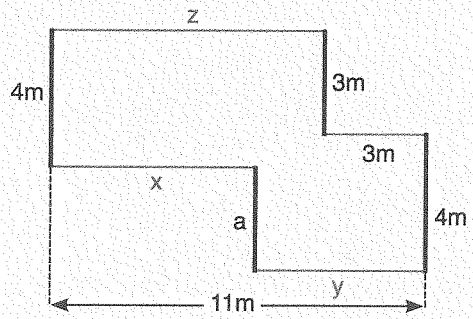
$$\Rightarrow 3a = b + 2a$$

$$b = a$$

$$\begin{aligned} \text{Ç} &= 3a + 4a + 2a + 2a + 4a + 2a + b + x + y + z + m + n + k + p \\ &= 42a \end{aligned}$$

Cevap: D

7.



$$\Rightarrow x + y = 11m$$

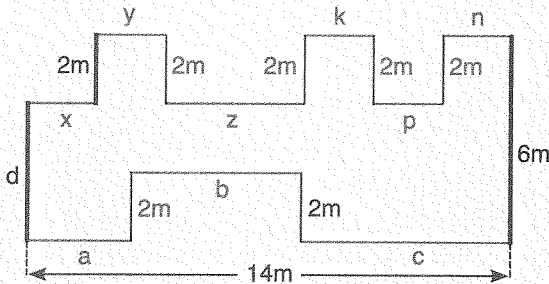
$$z + 3m = 11m \Rightarrow z = 8m$$

$$\Rightarrow 4m + a = 3m + 4m \Rightarrow a = 3m$$

$$\begin{aligned} \text{Çevre} &= 4m + 4m + 3m + 3m + x + y + z + a \\ &= 36m \end{aligned}$$

Cevap: B

6.



$$\Rightarrow x + y + z + k + p + n = 14m$$

$$a + b + c = 14m$$

$$\Rightarrow 2m + d = 6m$$

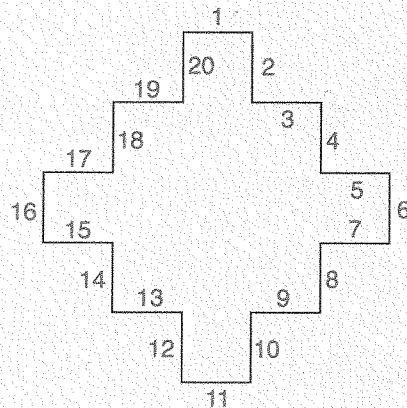
$$d = 4m$$

Çevre =

$$\begin{aligned} &6m + 2m + 2m + 5(2m) + x + y + z + k + p + n + a + b + c + d \\ &= 52m \end{aligned}$$

Cevap: E

8.

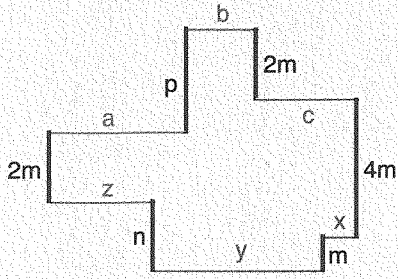


$$\Rightarrow \text{Çevre} = 20 \cdot 2m = 40m$$

Cevap: D

TEST - 1 ÇÖZÜMLER

9.



$$\Rightarrow a + b + c = 9m$$

$$x + y + z = 9m$$

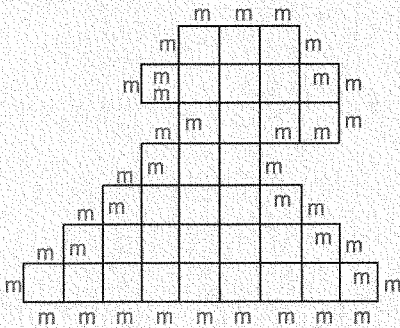
$$\Rightarrow 2m + 4m + m = p + 2m + n$$

$$5m = p + n$$

$$\begin{aligned} \text{Çevre} &= 2m + m + 4m + 2m + \underbrace{x + y + z}_{9m} + \underbrace{a + b + c}_{9m} + \underbrace{p + n}_{5m} \\ &= 32m \end{aligned}$$

Cevap: D

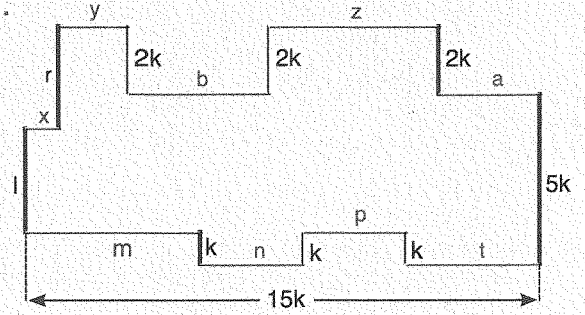
10.



$$\Rightarrow \text{Çevre} = 38m$$

Cevap: C

11.



$$\Rightarrow x + y + z + a + b = 15k$$

$$m + n + p + t = 15k$$

$$\Rightarrow 2k + 5k = k + l + r$$

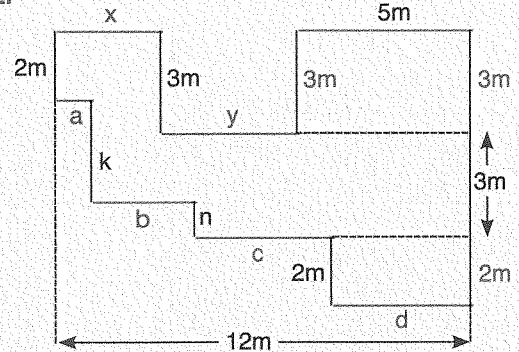
$$l + r = 6k$$

Çevre

$$\begin{aligned} &= 3.(2k) + 5k + \underbrace{k + k + k + k + l + r}_{6k} + \underbrace{x + y + z + b + a}_{15k} + \underbrace{m + n + p + t}_{15k} \\ &= 50k \end{aligned}$$

Cevap: E

12.



$$\Rightarrow x + y + 5m = 12m$$

$$x + y = 7m$$

$$\Rightarrow a + b + c + d = 12m$$

$$2m + k + n + 2m = 3m + 3m + 2m$$

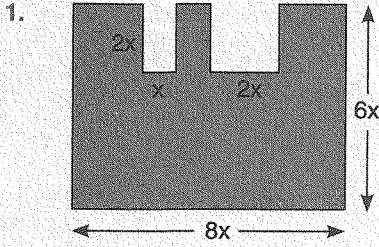
$$k + n = 4m$$

Çevre

$$\begin{aligned} &= 3.(2m) + 4.(3m) + 5m + \underbrace{x + y}_{7m} + \underbrace{a + b + c + d}_{12m} + \underbrace{k + n}_{4m} \\ &= 46m \end{aligned}$$

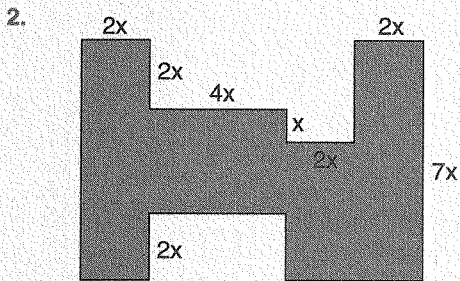
Cevap: E

TEST - 2



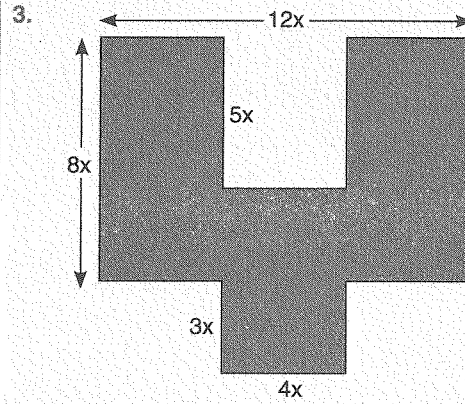
⇒ Taralı alan (shaded area) = ? x^2

- A) 37 B) 38 C) 40 D) 42 E) 46



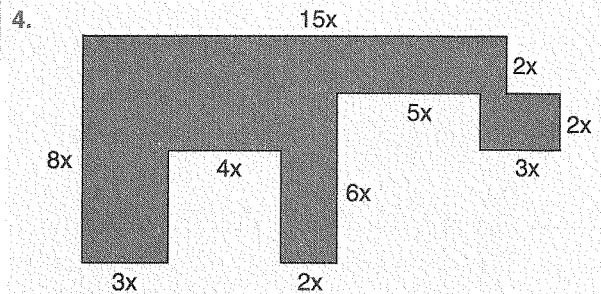
⇒ Taralı alan (shaded area) = ? x^2

- A) 76 B) 72 C) 56 D) 48 E) 46



⇒ Taralı alan (shaded area) = ? x^2

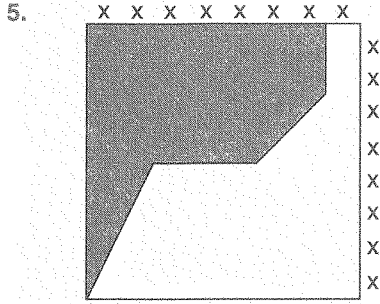
- A) 94 B) 96 C) 100 D) 120 E) 88



⇒ Taralı alan (shaded area) = ? x^2

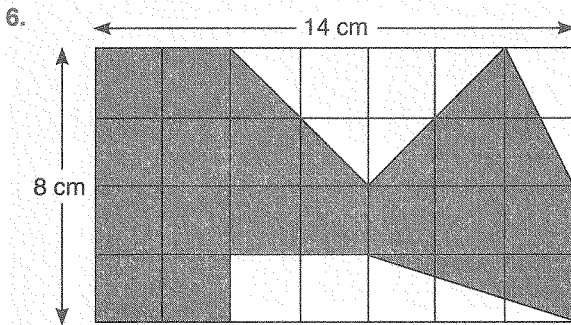
- A) 68 B) 70 C) 72 D) 74 E) 76

TEST - 2



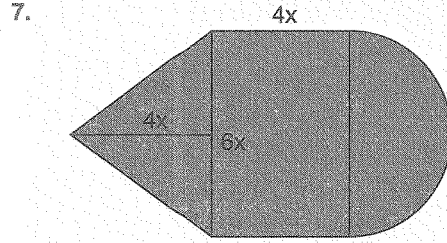
⇒ Taralı alan (shaded area) = $?x^2$

- A) 34 B) 35 C) 36 D) 37 E) 38



⇒ Taralı alan (shaded area) = $?cm^2$

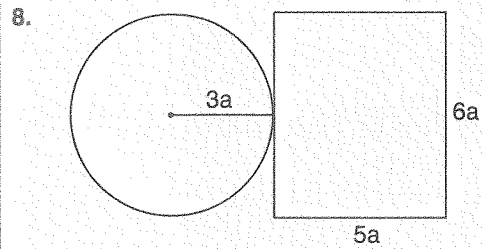
- A) 72 B) 74 C) 76 D) 78 E) 80



⇒ Taralı alan (shaded area) = $?x^2$ ($\pi = 3$)

- A) $\frac{95}{2}$ B) 46 C) $\frac{97}{2}$ D) 49 E) $\frac{99}{2}$

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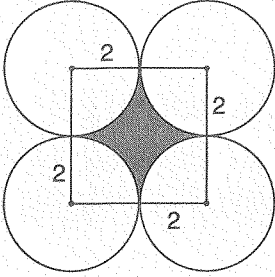


⇒ Çevre / Perimeter = $?a$ ($\pi = 3$)

- A) 32 B) 36 C) 40 D) 42 E) 44

TEST - 2

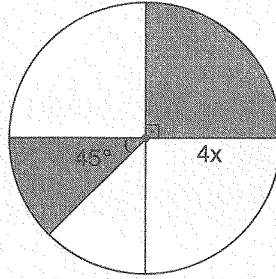
9.



⇒ Taralı alan (shaded area) = $?br^2$ ($\pi = 3$)

- A) 4 B) 5 C) 6 D) 8 E) 9

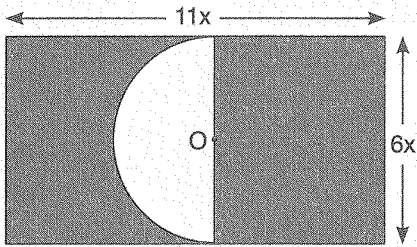
11.



⇒ Taralı alan (shaded area) = $?x^2$ ($\pi = 3$)

- A) 16 B) 18 C) 20 D) 24 E) 28

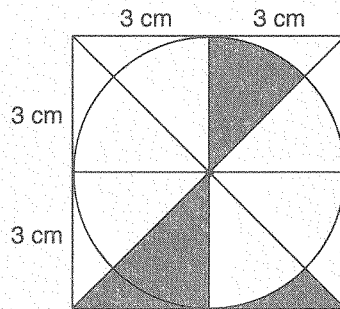
10.



⇒ Taralı alan (shaded area) = $?x^2$ ($\pi = 3$)

- A) 45 B) $\frac{95}{2}$ C) 50 D) $\frac{105}{2}$ E) 105

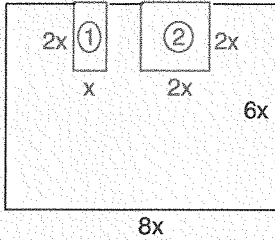
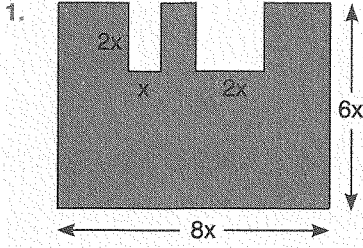
12.



⇒ Taralı alan (shaded area) = $?cm^2$

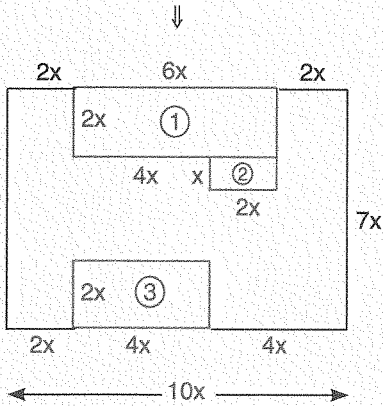
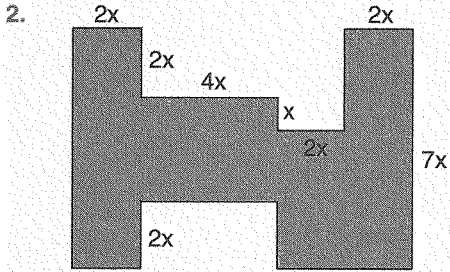
- A) 4 B) 6 C) 9 D) 12 E) 15

TEST - 2 ÇÖZÜMLER



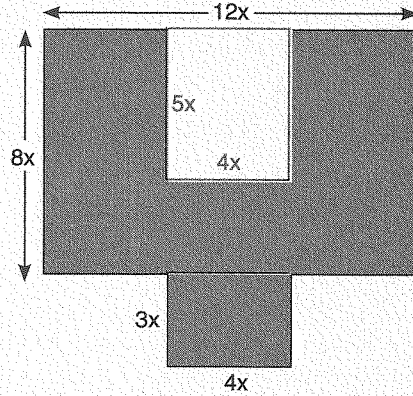
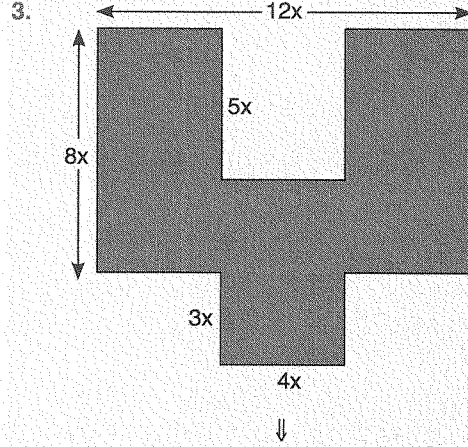
$$\begin{aligned} \text{T.A} & \quad \textcircled{1} \quad \textcircled{2} \\ &= 8x \cdot 6x - 2x \cdot x - 2x \cdot 2x \\ &= 48x^2 - 2x^2 - 4x^2 \\ &= 42x^2 \end{aligned}$$

Cevap: D



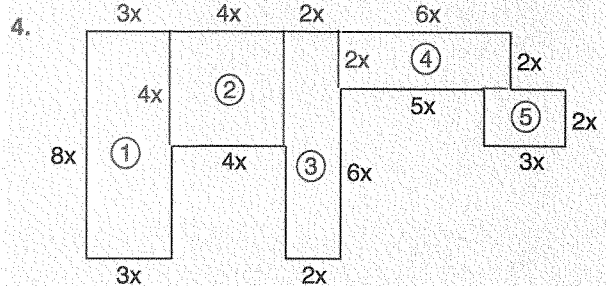
$$\begin{aligned} \text{T.A} & \quad \textcircled{1} \quad \textcircled{2} \quad \textcircled{3} \\ &= 10x \cdot 7x - 2x \cdot 6x - x \cdot 2x - 2x \cdot 4x \\ &= 70x^2 - 12x^2 - 2x^2 - 8x^2 \\ &= 48x^2 \end{aligned}$$

Cevap: D



$$\begin{aligned} \text{T.A} &= 12x \cdot 8x - 5x \cdot 4x + 3x \cdot 4x \\ &= 96x^2 - 20x^2 + 12x^2 \\ &= 88x^2 \end{aligned}$$

Cevap: E

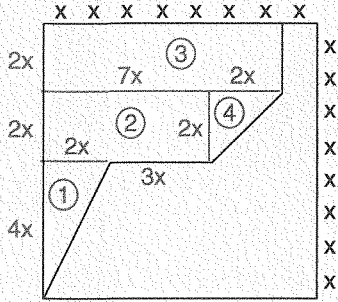


$$\begin{aligned} \text{Taralı Alan} & \quad \textcircled{1} \quad \textcircled{2} \quad \textcircled{3} \quad \textcircled{4} \quad \textcircled{5} \\ &= 8x \cdot 3x + 4x \cdot 4x + 8x \cdot 2x + 6x \cdot 2x + 3x \cdot 2x \\ &= 24x^2 + 16x^2 + 16x^2 + 12x^2 + 6x^2 \\ &= 74x^2 \end{aligned}$$

Cevap: D

TEST - 2 ÇÖZÜMLER

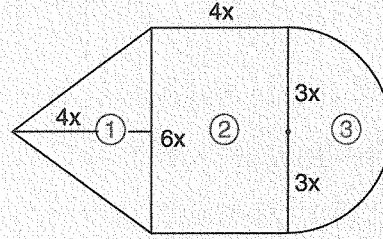
5.



$$\begin{aligned}
 \text{T.A} &= \frac{4x \cdot 2x}{2} + 5x \cdot 2x + 9x \cdot 2x + \frac{2x \cdot 2x}{2} \\
 &= 4x^2 + 10x^2 + 18x^2 + 2x^2 \\
 &= 34x^2
 \end{aligned}$$

Cevap: A

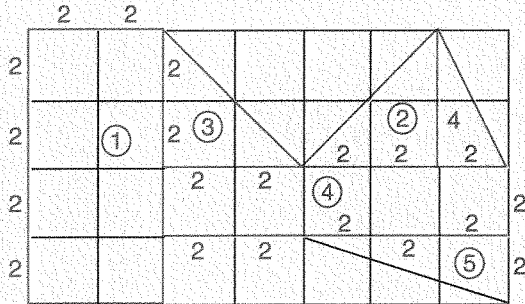
7.



$$\begin{aligned}
 \text{Taralı Alan} &= \frac{4x \cdot 4x}{2} + 6x \cdot 6x + \frac{\pi(3x)^2}{2} \\
 &= \frac{16x^2}{2} + 36x^2 + \frac{9\pi x^2}{2} \\
 &= 8x^2 + 36x^2 + \frac{9\pi x^2}{2} \\
 &= 44x^2 + \frac{9\pi x^2}{2}
 \end{aligned}$$

Cevap: E

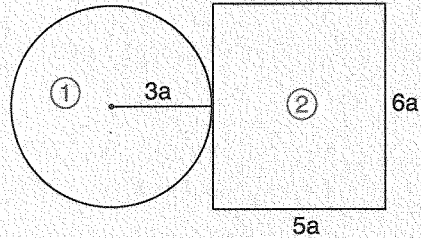
6.



$$\begin{aligned}
 \text{Taralı Alan} &= \frac{2 \cdot 2}{2} + \frac{2 \cdot 2}{2} + \frac{2 \cdot 2}{2} + \frac{2 \cdot 2}{2} + \frac{2 \cdot 2}{2} \\
 &= 2 + 2 + 2 + 2 + 2 \\
 &= 10
 \end{aligned}$$

Cevap: D

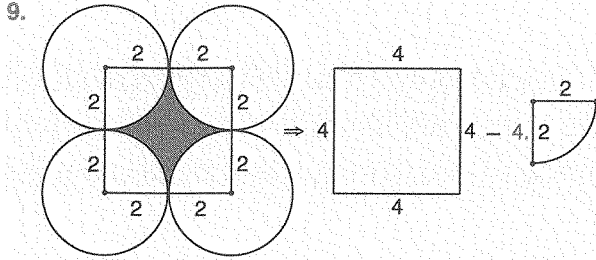
8.



$$\begin{aligned}
 \text{Çevre} &= 2\pi \cdot 3a + 2 \cdot (5a + 6a) \\
 &= 6\pi a + 22a \\
 &= 18a + 22a \\
 &= 40a
 \end{aligned}$$

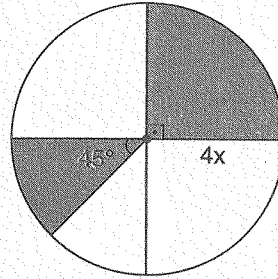
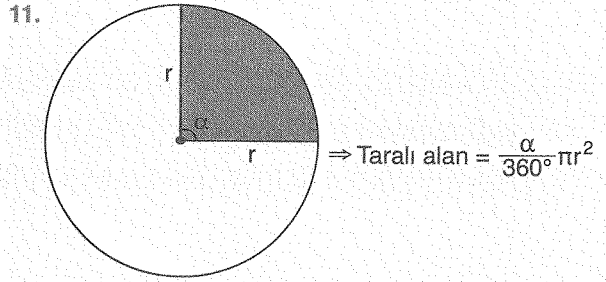
Cevap: C

TEST - 2 ÇÖZÜMLER



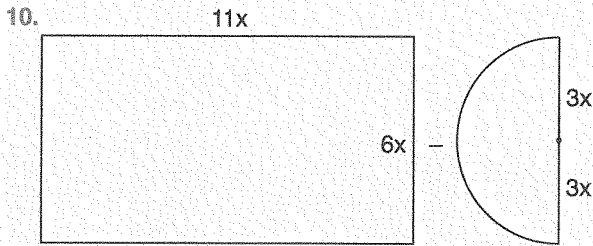
$$\begin{aligned}
 &= 4 \cdot 4 - 4 \cdot \frac{\pi \cdot 2^2}{4} \\
 &= 16 - 4 \cdot \frac{3 \cdot 4}{4} \\
 &= 16 - 12 \\
 &= 4b^2
 \end{aligned}$$

Cevap: A



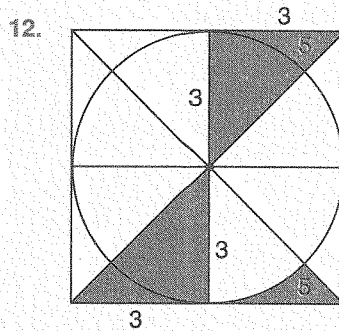
$$\Rightarrow \frac{90^\circ + 45^\circ}{360^\circ} \cdot \pi (4x)^2 = \frac{135}{360} \pi \cdot 16x^2 = 18x^2$$

Cevap: B



$$\begin{aligned}
 \text{Taralı alan} &= 11x \cdot 6x - \frac{\pi (3x)^2}{2} \\
 &= 66x^2 - 3 \cdot \frac{9x^2}{2} \\
 &= 66x^2 - \frac{27x^2}{2} = \frac{105x^2}{2}
 \end{aligned}$$

Cevap: D



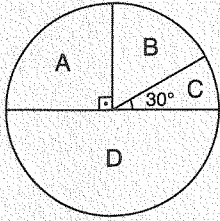
$$\Rightarrow \frac{3 \cdot 3}{2} + \frac{3 \cdot 3}{2} = \frac{9}{2} + \frac{9}{2} = 9 \text{ cm}^2$$

Cevap: C

GRAFİKLER (GRAPHS)

TEST - 1

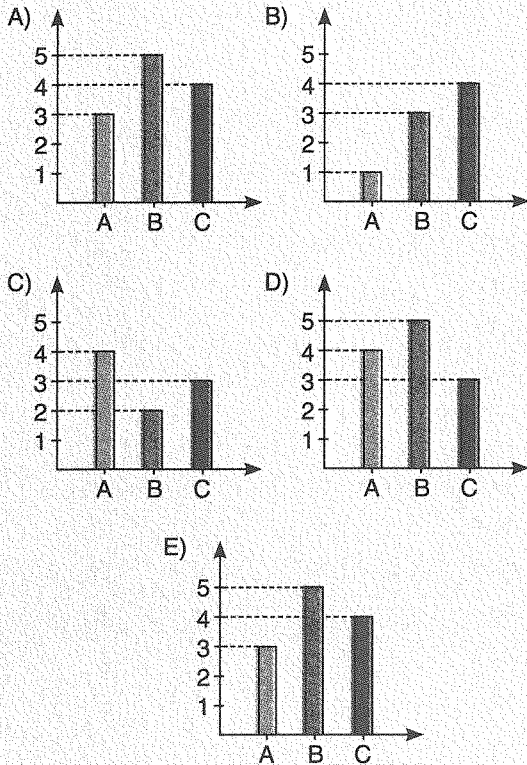
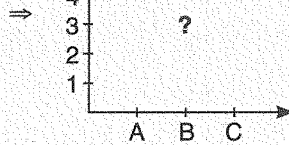
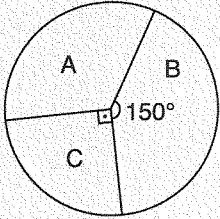
1.



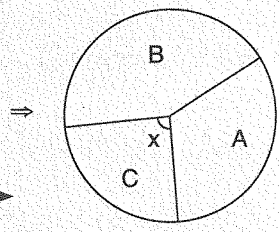
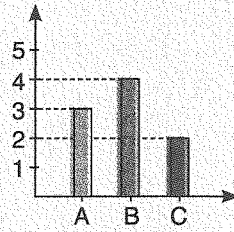
$$\Rightarrow A : B : C : D = ?$$

- A) 1 : 2 : 3 : 6 B) 2 : 3 : 1 : 6 C) 3 : 2 : 2 : 6
D) 3 : 2 : 1 : 6 E) 1 : 3 : 2 : 6

2.



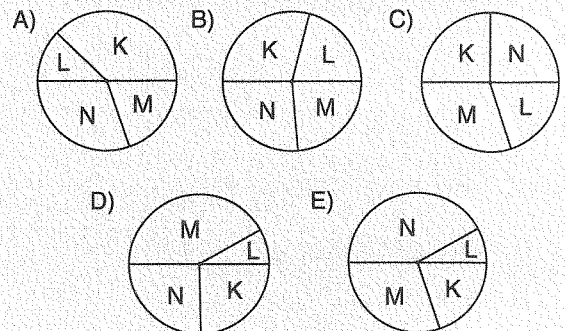
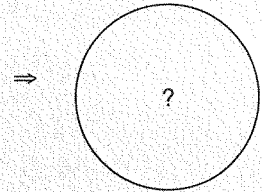
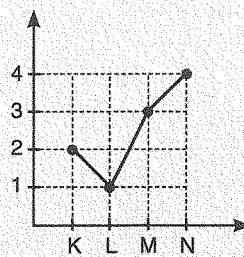
3.



$$\Rightarrow x = ?$$

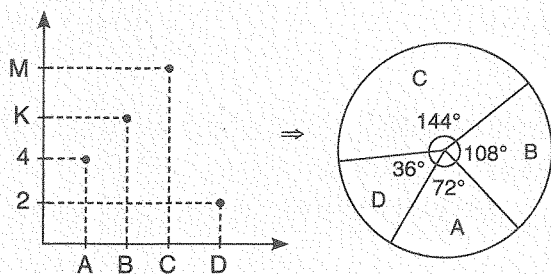
- A) 60° B) 80° C) 90° D) 100° E) 120°

4.



TEST - 1

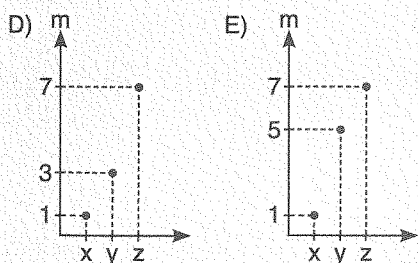
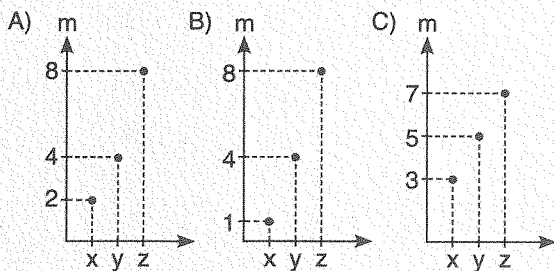
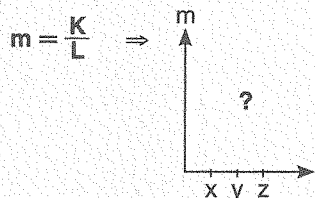
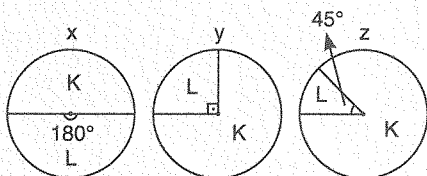
5.



$$\Rightarrow K + M = ?$$

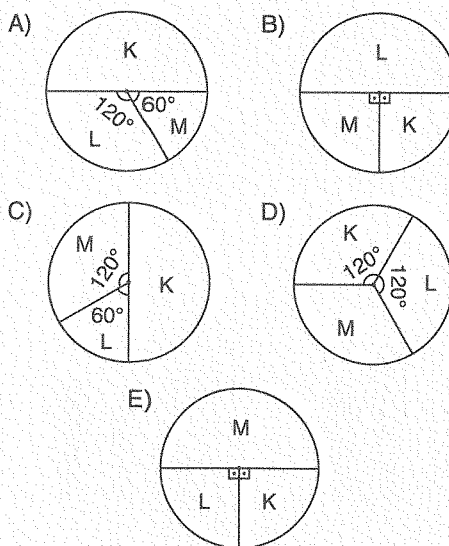
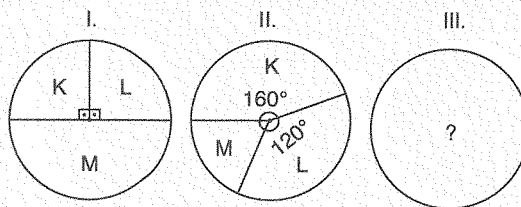
- A) 12 B) 14 C) 16 D) 18 E) 20

6.



7.

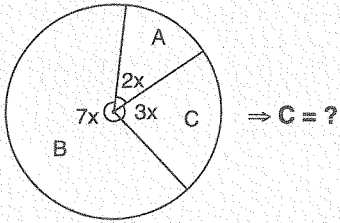
	K	L	M
I.	2	2	4
II.	4	3	2
III.	9	6	3



TASARI AKADEMİ YAYINLARI

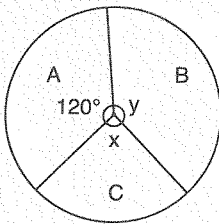
TEST - 1

8.



- A) 60° B) 90° C) 100° D) 105° E) 120°

9.

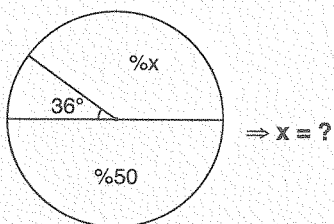


$$y - x = 40^\circ$$

$$\Rightarrow x = ?$$

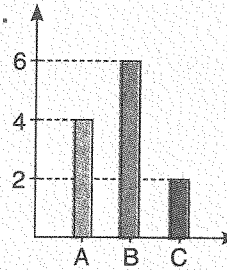
- A) 80° B) 90° C) 95° D) 100° E) 110°

10.



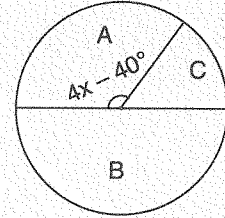
- A) 30 B) 32 C) 34 D) 36 E) 40

11.



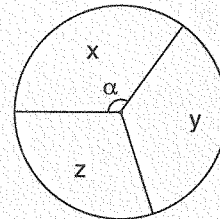
$$\Rightarrow x = ?$$

- A) 25 B) 30 C) 40 D) 45 E) 48



$$12. 3x = 4y$$

$$3x = 4z$$



$$\Rightarrow \alpha = ?$$

- A) 112° B) 116° C) 120° D) 144° E) 156°

TEST - 1 ÇÖZÜMLER

1.

A	B	C	D
90°	60°	30°	180°
3	2	1	6

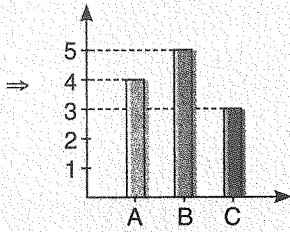
 → 30° ile sadeleştirilirse
⇒ A : B : C : D = 3 : 2 : 1 : 6

Cevap: D

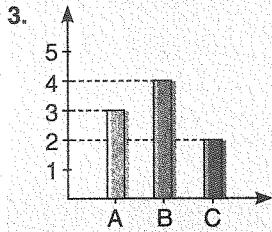
2.

A	B	C
120°	150°	90°
4	5	3

 → 30° ile sadeleştirilirse



Cevap: D



A = 3k

B = 4k ⇒ 3k + 4k + 2k = 360°

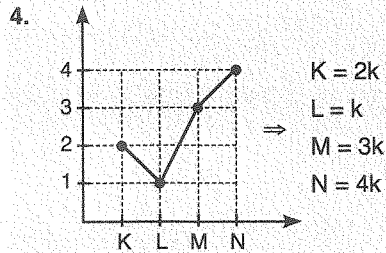
C = 2k

9k = 360°

k = 40°

⇒ x = 2k = 2 · 40° = 80°

Cevap: B

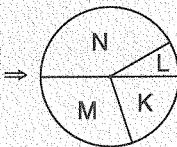


K = 2k

L = k

M = 3k

N = 4k

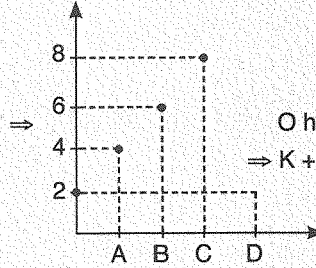


Cevap: E

5.

A	B	C	D
72°	108°	144°	36°
4	6	8	2

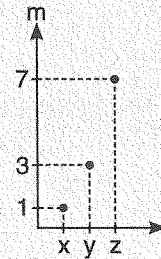
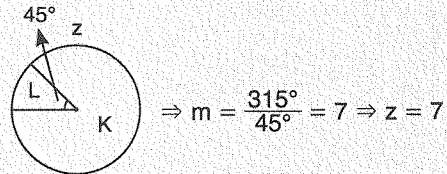
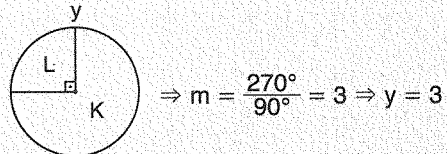
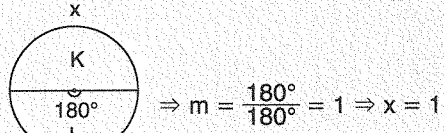
 → 18° ile sadeleştirilirse



O halde K = 6 ve M = 8
⇒ K + M = 6 + 8 = 14 çıkar.

Cevap: B

6.



Cevap: D

TEST - 1 ÇÖZÜMLER

7.

	K	L	M
III.	9	6	3

$$\Rightarrow K = 9k$$

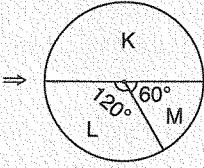
$$L = 6k$$

$$M = 3k$$

$$\Rightarrow 9k + 6k + 3k = 360^\circ$$

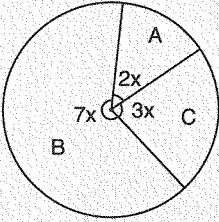
$$18k = 360^\circ$$

$$k = 20^\circ$$



Cevap: A

8.



$$\Rightarrow 2x + 3x + 7x = 360^\circ$$

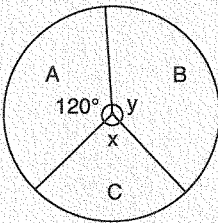
$$12x = 360^\circ$$

$$x = 30^\circ$$

$$\Rightarrow C = 3x = 3 \cdot 30^\circ = 90^\circ$$

Cevap: B

9.



$$\Rightarrow 120^\circ + x + y = 360^\circ$$

$$x + y = 240^\circ$$

O halde;

$$x + y = 240^\circ$$

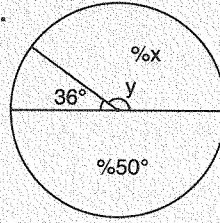
$$- y - x = 40^\circ$$

$$\hline 2x = 200^\circ$$

$$x = 100^\circ \text{ olur.}$$

Cevap: D

10.



$$\begin{array}{r} 360^\circ \times \%100 \\ ? \times \%50 \end{array}$$

$$100 \cdot ? = 360 \cdot 50$$

$$? = 180^\circ$$

$$\Rightarrow 36^\circ + y + 180^\circ = 360^\circ$$

$$y = 144^\circ$$

$$\text{O halde; } \begin{array}{r} 360^\circ \times \%100 \\ 144^\circ \times \%x \end{array}$$

$$100 \cdot 144 = 360 \cdot x$$

$$\frac{144}{2} = \frac{360}{5} \cdot x$$

$$200 = 5x$$

$$x = 40$$

Cevap: E

11.

A	B	C
4	6	2

$$\Rightarrow A = 4k$$

$$B = 6k$$

$$C = 2k$$

$$\Rightarrow 4k + 6k + 2k = 360^\circ$$

$$12k = 360^\circ$$

$$k = 30^\circ$$

$$\text{O halde; } A = 4x - 40^\circ = 4k$$

$$4x - 40^\circ = 4 \cdot 30^\circ$$

$$4x - 40^\circ = 120^\circ$$

$$4x = 160^\circ$$

$$x = 40^\circ$$

Cevap: C

$$12. 3x = 4y \Rightarrow x = 4k \text{ ve } y = 3k$$

$$3x = 4z \Rightarrow x = 4k \text{ ve } z = 3k$$

$$\Rightarrow x + y + z = 360^\circ$$

$$4k + 3k + 3k = 360^\circ$$

$$10k = 360^\circ$$

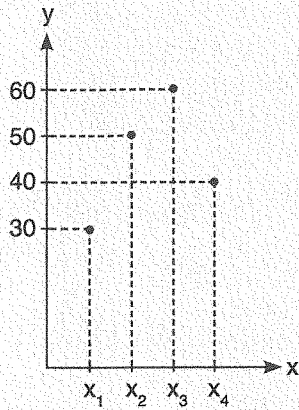
$$k = 36^\circ$$

$$\Rightarrow x = \alpha = 4k = 4 \cdot 36^\circ = 144^\circ$$

Cevap: D

TEST - 2

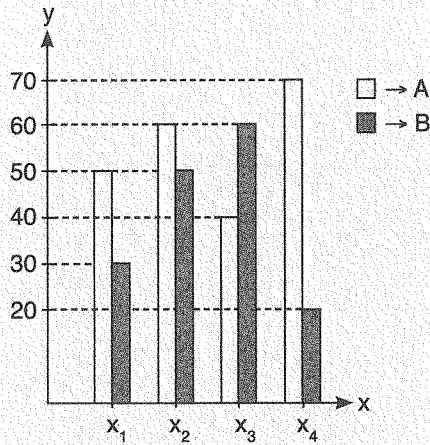
1.



$$\Rightarrow (x_2 - x_4) \cdot (x_3 - x_1) = ?$$

- A) 200 B) 240 C) 250 D) 300 E) 600

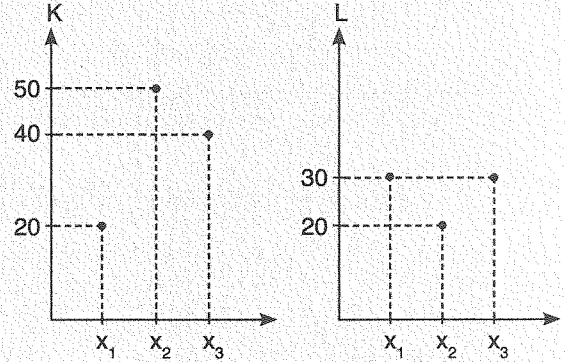
2.



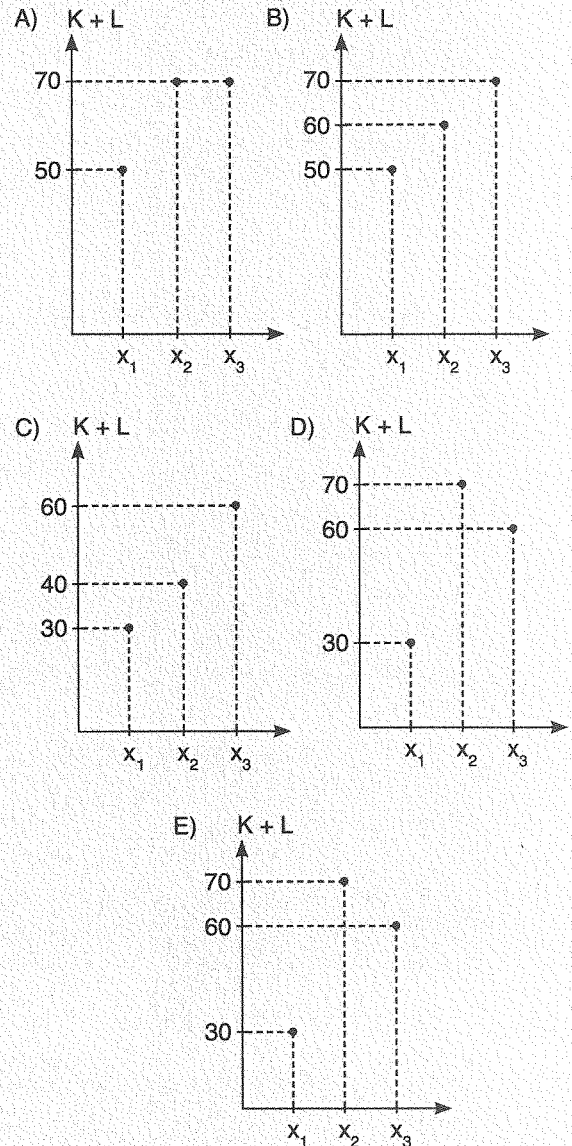
$$\Rightarrow x_1A - x_2B - x_3B + x_4A = ?$$

- A) -10 B) 10 C) 20 D) 30 E) 50

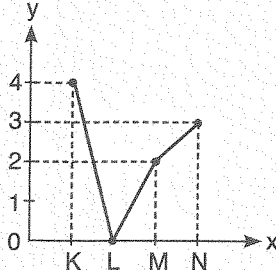
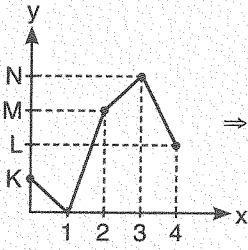
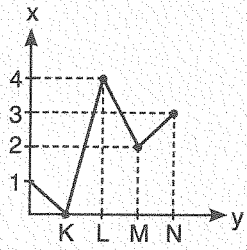
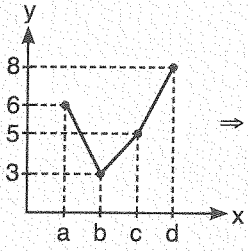
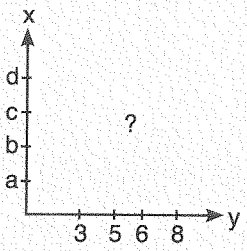
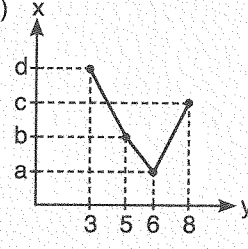
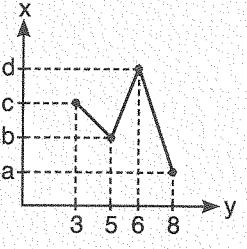
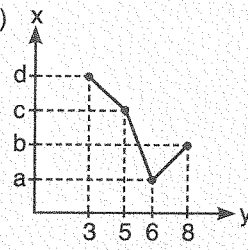
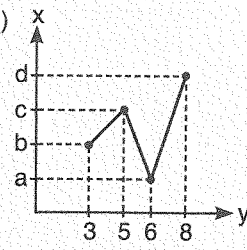
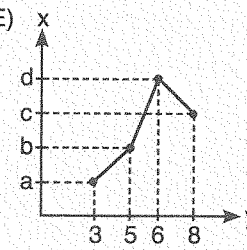
3.



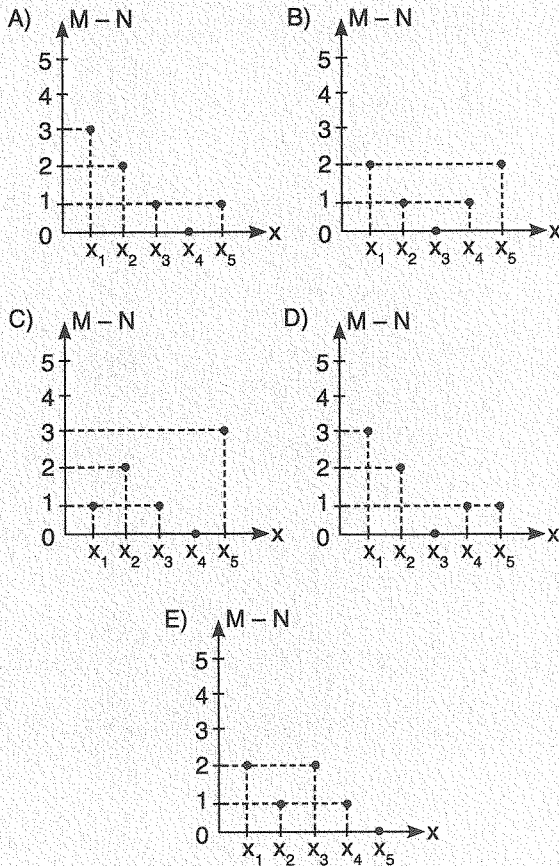
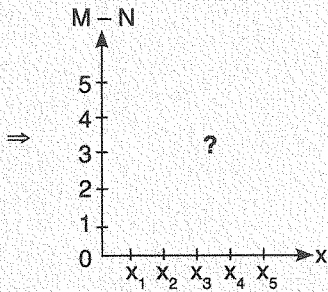
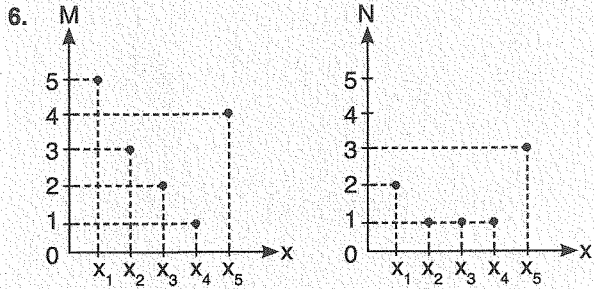
$$\Rightarrow K + L = ?$$



TEST - 2

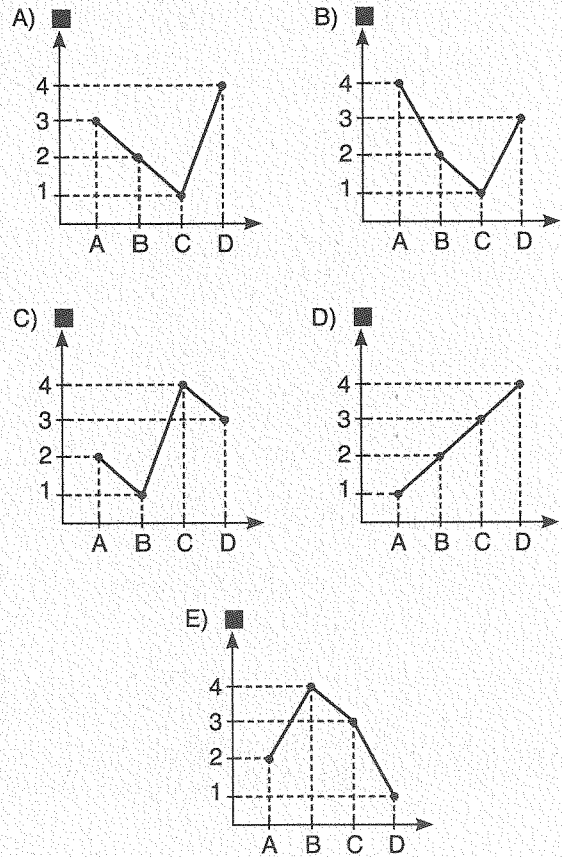
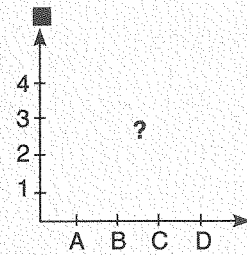
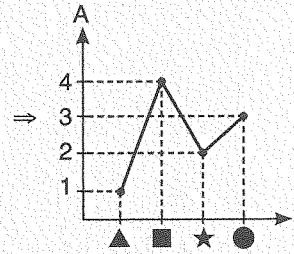
4. 
- $\Rightarrow L.(K + M + N) = ?$
- A) 0 B) 4 C) 8 D) 12 E) 20
5. 
- $\Rightarrow$ 
- 
- $\Rightarrow$ 
- A) 
- B) 
- C) 
- D) 
- E) 

TEST - 2



7.

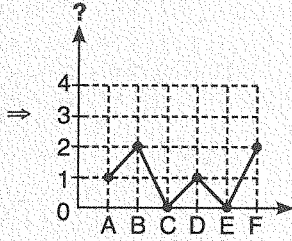
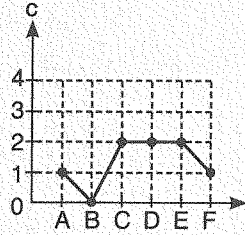
	A	B	C	D
▲	1	3	2	4
★	2	4	3	1
■	4	2	1	3
●	3	1	4	2



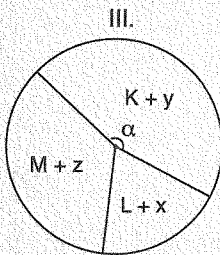
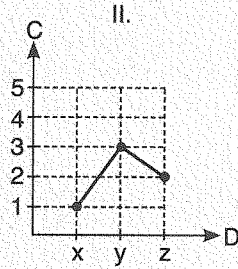
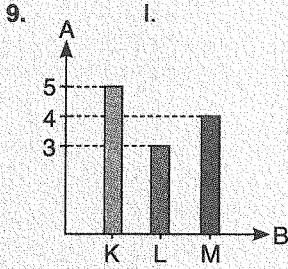
TEST - 2

8.

A	B	C	D	E	F
b	a	b	d	c	a
b	b	c	c	d	a
c	e	e	a	f	b
a	e	f	c	e	c
b	f	c	d	f	e
b	a	d	e	c	f
d	d	e	f	d	d

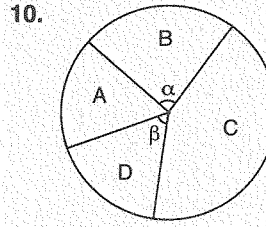


- A) a B) b C) c D) d E) f



$\Rightarrow \alpha = ?$

- A) 140° B) 145° C) 150° D) 160° E) 165°



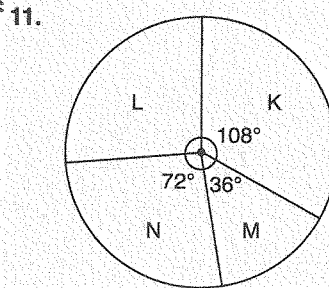
$C = \frac{2}{5}$

$A = \frac{11}{40}$

$\alpha - \beta = 73$

$\Rightarrow \alpha = ?$

- A) 85° B) 90° C) 95° D) 105° E) 110°

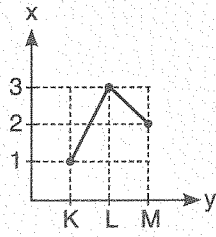
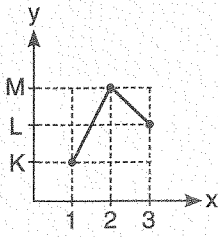


$\Rightarrow K : ? , L : ? , M : ? , N : ?$

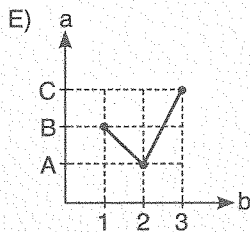
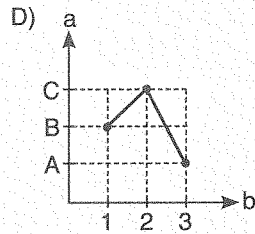
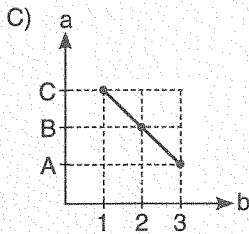
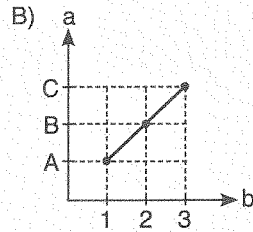
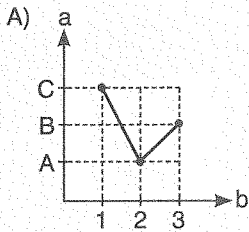
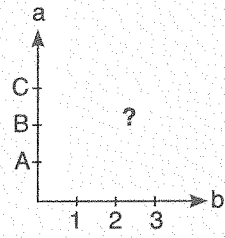
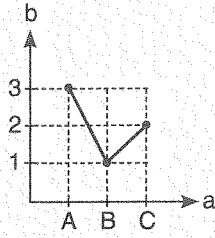
- A) $\frac{3}{5}, \frac{4}{5}, \frac{1}{10}, \frac{1}{5}$ B) $\frac{1}{10}, \frac{3}{5}, \frac{2}{5}, \frac{3}{10}$
 C) $\frac{1}{5}, \frac{3}{10}, \frac{2}{5}, \frac{1}{10}$ D) $\frac{4}{5}, \frac{3}{5}, \frac{1}{5}, \frac{1}{10}$
 E) $\frac{3}{10}, \frac{2}{5}, \frac{1}{10}, \frac{1}{5}$

TEST - 2

12. I.



II.



TEST - 2 ÇÖZÜMLER

1.

x_1	x_2	x_3	x_4
30	50	60	40

$$\rightarrow (x_2 - x_4) \cdot (x_3 - x_1) = (50 - 40) \cdot (60 - 30) \\ = 10 \cdot 30 = 300$$

Cevap: D

2.

	x_1	x_2	x_3	x_4
A	50	60	40	70
B	30	50	60	20

$$x_1A - x_2B - x_3B + x_4A = 50 - 50 - 60 + 70 = 10$$

Cevap: B

3.

K	x_1	x_2	x_3
	20	50	40

L	x_1	x_2	x_3
	30	20	30

$$\Rightarrow$$

K + L	x_1	x_2	x_3
	50	70	70

Cevap: A

4.

K	L	M	N
4	0	2	3

$$\rightarrow L \cdot (K + M + N) = 0 \cdot (4 + 2 + 3) = 0.9 = 0$$

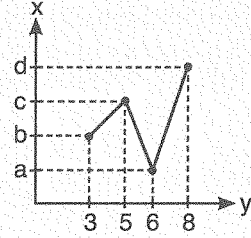
Cevap: A

5.

a	b	c	d
6	3	5	8

 $\Rightarrow$

3	5	6	8
b	c	a	d



Cevap: D

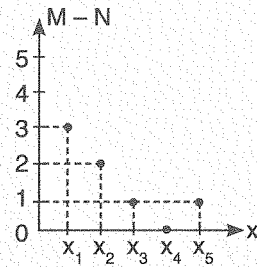
6.

M	x_1	x_2	x_3	x_4	x_5
	5	3	2	1	4

N	x_1	x_2	x_3	x_4	x_5
	2	1	1	1	3

 $\Rightarrow$

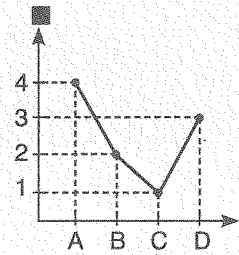
M - N	x_1	x_2	x_3	x_4	x_5
	3	2	1	0	1



Cevap: A

7.

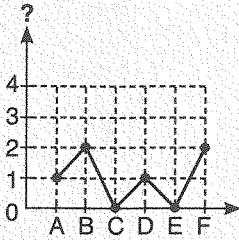
■	1	2	3	4
	C	B	D	A



Cevap: B

TEST - 2 ÇÖZÜMLER

8.



⇒

?	A	B	C	D	E	F
	1	2	0	1	0	2

	A	B	C	D	E	F
		a				a
						a
$\Rightarrow$				a		
	a					
		a				

↓ ↓ ↓ ↓ ↓ ↓
1 2 0 1 0 2

Cevap: A

$$10. C = \frac{2}{5} \Rightarrow \frac{2}{5} \cdot 360^\circ = 144^\circ$$

$$A = \frac{11}{40} \Rightarrow \frac{11}{40} \cdot 360^\circ = 99^\circ$$

O halde; $A + C + \alpha + \beta = 360^\circ$

$$144^\circ + 99^\circ + \alpha + \beta = 360^\circ$$

$$\alpha + \beta = 117^\circ$$

$$\alpha + \beta = 117^\circ$$

$$+ \alpha - \beta = 73$$

$$2\alpha = 190^\circ$$

$$\alpha = 95^\circ$$

Cevap: C

11. $108^\circ + 36^\circ + 72^\circ + L = 360^\circ \quad L = 144^\circ$

$$\Rightarrow K = 108^\circ \Rightarrow \frac{108^\circ}{360^\circ} = \frac{3}{10}$$

$$L = 144^\circ \Rightarrow \frac{144^\circ}{360^\circ} = \frac{2}{5}$$

$$M = 36^\circ \Rightarrow \frac{36^\circ}{360^\circ} = \frac{1}{10}$$

$$N = 72^\circ \Rightarrow \frac{72^\circ}{360^\circ} = \frac{1}{5}$$

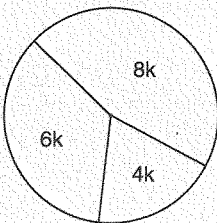
Cevap: E

9. 1.

K	L	M
5	3	4

III.

x	y	z
1	3	2

$$\Rightarrow \begin{array}{|c|c|c|} \hline K+y & L+x & M+z \\ \hline 8 & 4 & 6 \\ \hline \end{array}$$


$$\Rightarrow 8k + 4k + 6k = 360^\circ$$

$$18k = 360^\circ$$

$k = 20^\circ$

$$K + y = 8k = 8.20^\circ = 160^\circ$$

Cevap: D

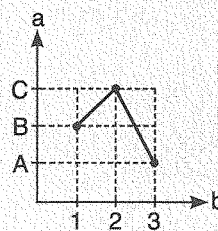
12. II.

A	B	C
3	1	2

 $\Rightarrow$

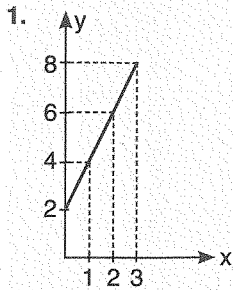
1	2	3
B	C	A

O halde;



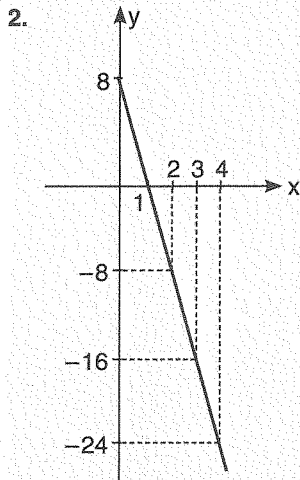
Cevap: D

TEST - 3



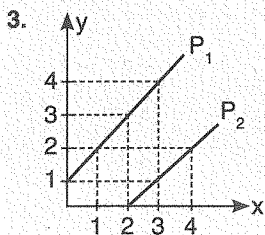
$$x = 50 \Rightarrow y = ?$$

- A) 96 B) 98 C) 100 D) 101 E) 102



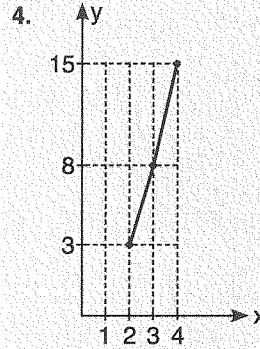
$$x = 15 \Rightarrow y = ?$$

- A) -96 B) -104 C) -112 D) -116 E) -118



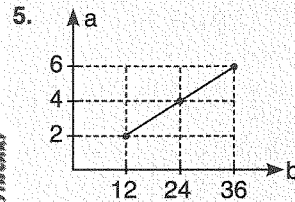
$$\begin{aligned} P_1 &\Rightarrow x_1 = 15 & y_1 &= ? \\ P_2 &\Rightarrow x_2 = 15 & y_2 &= ? \\ &\Rightarrow y_1 + y_2 &= ? \end{aligned}$$

- A) 26 B) 29 C) 30 D) 32 E) 34



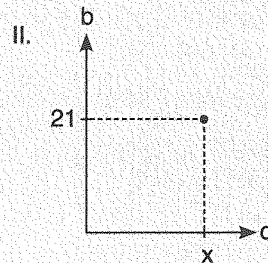
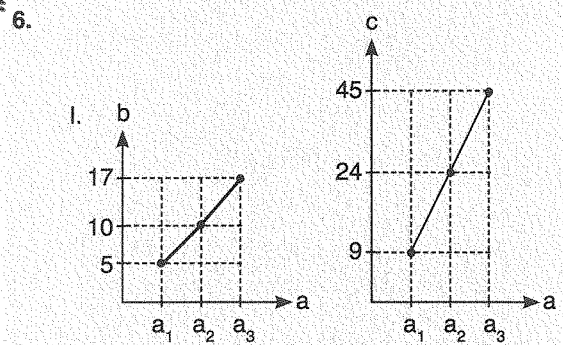
$$x = 14 \Rightarrow y = ?$$

- A) 120 B) 143 C) 180 D) 186 E) 195



$$a = 23 \Rightarrow b = ?$$

- A) 138 B) 132 C) 126 D) 120 E) 114

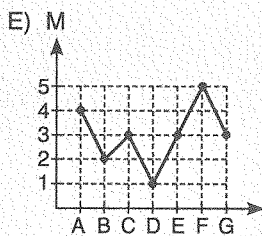
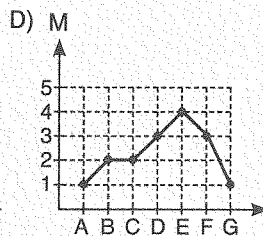
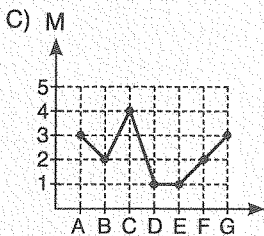
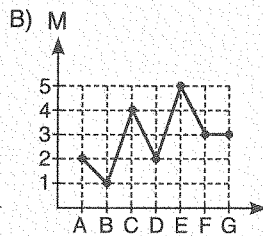
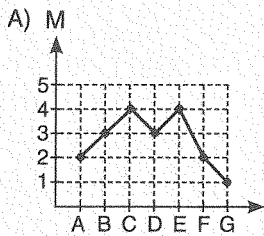
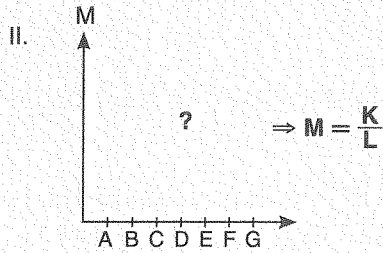
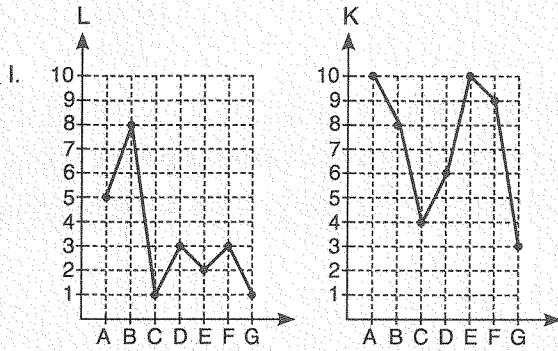


$$\Rightarrow x = ?$$

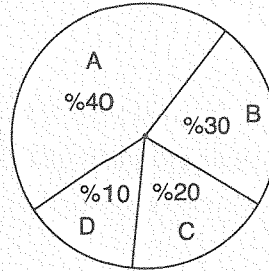
- A) 51 B) 54 C) 57 D) 59 E) 62

TEST - 3

7.



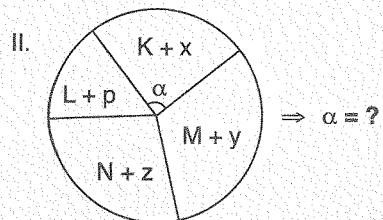
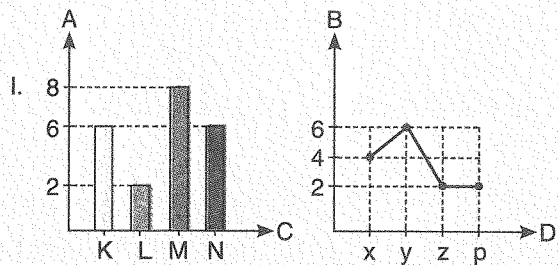
8.


 $\Rightarrow A = ?, B = ?, C = ?, D = ?$

- A) $144^\circ, 108^\circ, 72^\circ, 36^\circ$ B) $120^\circ, 90^\circ, 60^\circ, 30^\circ$
C) $144^\circ, 72^\circ, 108^\circ, 36^\circ$ D) $36^\circ, 72^\circ, 108^\circ, 144^\circ$
E) $150^\circ, 120^\circ, 90^\circ, 60^\circ$

TAMAM ANDEMİ YATIRILMI

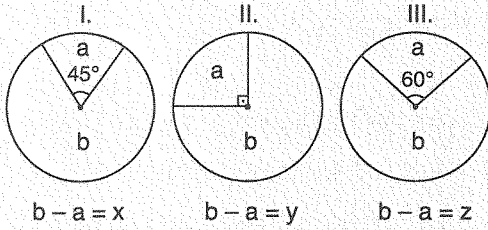
9.



- A) 75° B) 80° C) 90° D) 100° E) 120°

TEST - 3

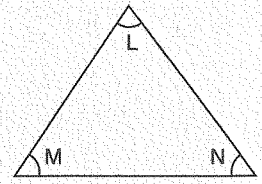
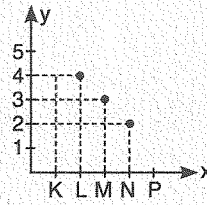
10.



$$\Rightarrow x + y - z = ?$$

- A) 170° B) 190° C) 200° D) 210° E) 230°

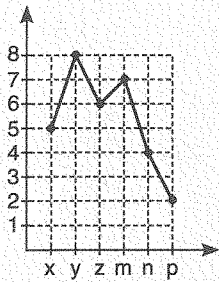
12.



$$\Rightarrow L - N + M = ?$$

- A) 100° B) 95° C) 90° D) 85° E) 60°

11.



$$x + y + z + m + n + p = 640 \Rightarrow m = ?$$

- A) 70 B) 105 C) 130 D) 140 E) 210

TEST - 3 ÇÖZÜMLER

1.

x	1	2	3	...	50
y	4	6	8	...	?

$$\begin{aligned}
 1 &\rightarrow ① \cdot 2 + 2 = 4 \\
 2 &\rightarrow ② \cdot 2 + 2 = 6 \\
 3 &\rightarrow ③ \cdot 2 + 2 = 8 \\
 \Rightarrow 50 &\rightarrow ⑤① \cdot 2 + 2 = 102
 \end{aligned}$$

Cevap: E

2.

x	1	2	3	4	...	15
y	0	-8	-16	-24	...	?

$$\begin{aligned}
 1 &\rightarrow 0 \cdot -8 = 0 \\
 2 &\rightarrow 1 \cdot -8 = -8 \\
 3 &\rightarrow 2 \cdot -8 = -16 \\
 4 &\rightarrow 3 \cdot -8 = -24 \\
 \Rightarrow 15 &\rightarrow 14 \cdot -8 = -112
 \end{aligned}$$

Cevap: C

3. $P_1 \Rightarrow$

x	1	2	3	...	15
y	2	3	4	...	?

$$\begin{aligned}
 1 &\rightarrow ① + 1 = 2 \\
 2 &\rightarrow ② + 1 = 3 \\
 3 &\rightarrow ③ + 1 = 4 \\
 \Rightarrow 15 &\rightarrow ①⑤ + 1 = 16 \\
 y_1 &= 16
 \end{aligned}$$

$P_2 \Rightarrow$

x	2	3	4	...	15
y	0	1	2	...	?

$$\begin{aligned}
 2 &\rightarrow ② - 2 = 0 \\
 3 &\rightarrow ③ - 2 = 1 \\
 4 &\rightarrow ④ - 2 = 2 \\
 \Rightarrow 15 &\rightarrow ①⑤ - 2 = 13 \\
 y_2 &= 13
 \end{aligned}$$

$$O \text{ halde; } y_1 + y_2 = 16 + 13 = 29$$

Cevap: B

4.

x	2	3	4	...	14
y	3	8	15	...	?

$$\begin{aligned}
 2 &\rightarrow ②^2 - 1 = 3 \\
 3 &\rightarrow ③^2 - 1 = 8 \\
 4 &\rightarrow ④^2 - 1 = 15 \\
 \Rightarrow 14 &\rightarrow ①④^2 - 1 = 195
 \end{aligned}$$

Cevap: E

5.

a	2	4	6	...	23
b	12	24	36	...	?

$$\begin{aligned}
 2 &\rightarrow ② \cdot 6 = 12 \\
 4 &\rightarrow ④ \cdot 6 = 24 \\
 6 &\rightarrow ⑥ \cdot 6 = 36 \\
 \Rightarrow 23 &\rightarrow ②③ \cdot 6 = 138
 \end{aligned}$$

Cevap: A

6.

a	a_1	a_2	a_3
b	5	10	17

ve

a	a_1	a_2	a_3
c	9	24	45

$$\Rightarrow$$

b	5	10	17	...	21
c	9	24	45	...	?

$$\begin{aligned}
 5 &\rightarrow ⑤ \cdot 3 - 6 = 9 \\
 10 &\rightarrow ①① \cdot 3 - 6 = 24 \\
 17 &\rightarrow ①⑦ \cdot 3 - 6 = 45 \\
 \Rightarrow 21 &\rightarrow ②① \cdot 3 - 6 = 57
 \end{aligned}$$

Cevap: C

TEST - 3 ÇÖZÜMLER

7. L →

A	B	C	D	E	F	G
5	8	1	3	2	3	1

K →

A	B	C	D	E	F	G
10	8	4	6	10	9	3

⇒ $M = \frac{K}{L}$

A	B	C	D	E	F	G
---	---	---	---	---	---	---

↓ ↓ ↓ ↓ ↓ ↓ ↓

$\frac{8}{8} = 1$ $\frac{6}{3} = 2$ $\frac{9}{3} = 3$

$\frac{10}{5} = 2$ $\frac{4}{1} = 4$ $\frac{10}{2} = 5$ $\frac{3}{1} = 3$

Cevap: B

8. A → $\frac{40}{100} \cdot 360^\circ = 144^\circ$

B → $\frac{30}{100} \cdot 360^\circ = 108^\circ$

C → $\frac{20}{100} \cdot 360^\circ = 72^\circ$

D → $\frac{10}{100} \cdot 360^\circ = 36^\circ$

⇒ $144^\circ, 108^\circ, 72^\circ, 36^\circ$

Cevap: A

9. A ↔ C

K	L	M	N
6	2	8	6

B ↔ D

x	y	z	p
4	6	2	2

⇒

K+x	M+y	L+p	N+z
10	14	4	8

$$10k + 14k + 4k + 8k = 360^\circ$$

$$36k = 360^\circ$$

$$k = 10^\circ$$

$$\Rightarrow K+x = \alpha = 10k = 10 \cdot 10^\circ = 100^\circ$$

Cevap: D

10. I. $a = 45^\circ$ $b = 360^\circ - 45^\circ = 315^\circ$
 $\Rightarrow x = b - a = 315^\circ - 45^\circ = 270^\circ$

II. $a = 90^\circ$ $b = 360^\circ - 90^\circ = 270^\circ$
 $\Rightarrow y = b - a = 270^\circ - 90^\circ = 180^\circ$

III. $a = 60^\circ$ $b = 360^\circ - 60^\circ = 300^\circ$
 $\Rightarrow z = b - a = 300^\circ - 60^\circ = 240^\circ$

$x + y - z = 270^\circ + 180^\circ - 240^\circ = 210^\circ$

Cevap: D

11.

x	y	z	m	n	p
5	8	6	7	4	2

$$5k + 8k + 6k + 7k + 4k + 2k = 640$$

$$32k = 640$$

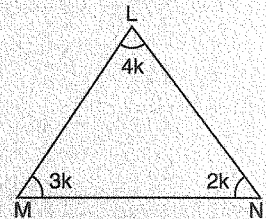
$$k = 20$$

$$\Rightarrow m = 7k = 7 \cdot 20 = 140$$

Cevap: D

12.

L	M	N
4	3	2



Üçgenin iç açılar toplamı 180° dir.

$$\text{O halde; } 4k + 3k + 2k = 9k = 180^\circ$$

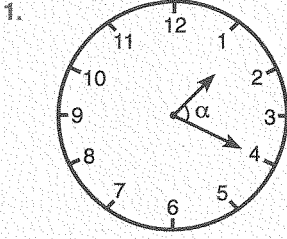
$$k = 20^\circ$$

$$\Rightarrow L - N + M = 4k - 2k + 3k = 5k = 5 \cdot 20^\circ = 100^\circ$$

Cevap: A

SAATLER
(WATCHES)

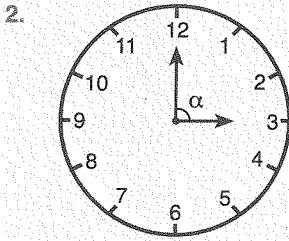
TEST - 1



1:20

 $\alpha = ?$

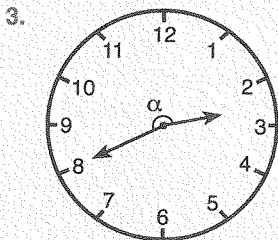
- A) 45° B) 60° C) 65° D) 75° E) 80°



3:00

 $\alpha = ?$

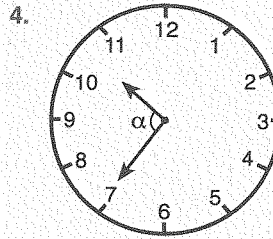
- A) 60° B) 85° C) 90° D) 95° E) 105°



2:40

 $\alpha = ?$

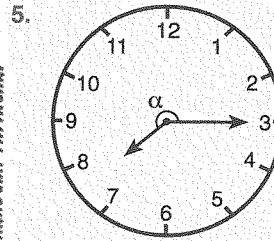
- A) 190° B) 200° C) 210° D) 220° E) 240°



10:35

 $\alpha = ?$

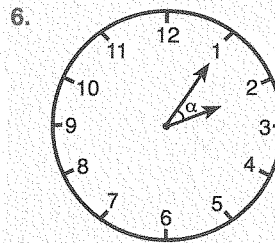
- A) $102,5^\circ$ B) 105° C) $107,5^\circ$
D) $112,5^\circ$ E) 115°



7:15

 $\alpha = ?$

- A) $117,5^\circ$ B) $127,5^\circ$ C) 135°
D) $137,5^\circ$ E) $142,5^\circ$



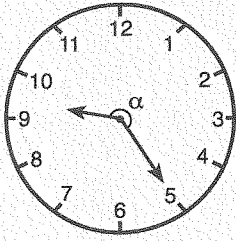
2:05

 $\alpha = ?$

- A) $22,5^\circ$ B) $27,5^\circ$ C) $26,5^\circ$ D) 30° E) $32,5^\circ$

TEST - 1

7.

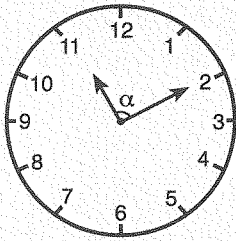


9:25

 $\alpha = ?$

- A) 212,5° B) 232,5° C) 225°
D) 227,5° E) 232,5°

8.

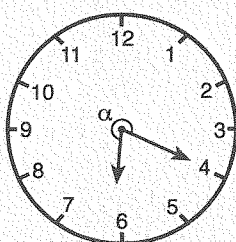


11:10

 $\alpha = ?$

- A) 81,5° B) 82,5° C) 85° D) 87° E) 90°

9.

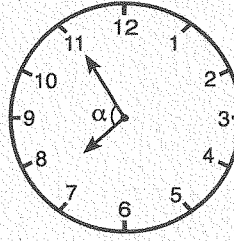


6:20

 $\alpha = ?$

- A) 250° B) 275° C) 260° D) 290° E) 300°

10.

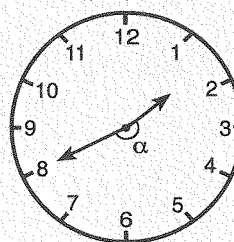


7:55

 $\alpha = ?$

- A) 91,5° B) 92,5° C) 95° D) 97,5° E) 100°

11.

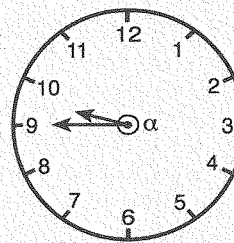


1:40

 $\alpha = ?$

- A) 182,5° B) 190° C) 192,5°
D) 195° E) 197,5°

12.



9:45

 $\alpha = ?$

- A) 337,5° B) 332,5° C) 330°
D) 325° E) 322,5°

TEST - 1 ÇÖZÜMLER

1. 1:20
- $\Rightarrow$
- saat = 1 ve dakika = 20

$$\alpha = \frac{|11.d - 60.s|}{2} = \frac{|11.20 - 60.1|}{2} = \frac{|220 - 60|}{2} = 80^\circ$$

Cevap: E

5. 7:15
- $\Rightarrow$
- saat = 7 ve dakika = 15

$$\alpha = \frac{|11.d - 60.s|}{2} = \frac{|11.15 - 60.7|}{2} = \frac{|165 - 420|}{2} = 127,5^\circ$$

Cevap: B

2. 3:00
- $\Rightarrow$
- saat = 3 ve dakika = 0

$$\alpha = \frac{|11.d - 60.s|}{2} = \frac{|11.0 - 60.3|}{2} = 90^\circ$$

Cevap: C

6. 2:05
- $\Rightarrow$
- saat = 2 ve dakika = 05

$$\alpha = \frac{|11.5 - 60.2|}{2} = \frac{|55 - 120|}{2} = 32,5^\circ$$

Cevap: E

3. 2:40
- $\Rightarrow$
- saat = 2 ve dakika = 40

$$\alpha = \frac{|11.40 - 60.2|}{2} = \frac{|440 - 120|}{2} = \frac{320}{2} = 160^\circ$$

$$\Rightarrow 360^\circ - 160 = 200^\circ$$

Cevap: B

7. 9:25
- $\Rightarrow$
- saat = 9 ve dakika = 25

$$\alpha = \frac{|11.d - 60.s|}{2} = \frac{|11.25 - 60.9|}{2} = 132,5^\circ$$

$$\Rightarrow 360^\circ - 132,5 = 227,5^\circ$$

Cevap: D

4. 10:35
- $\Rightarrow$
- saat = 10 ve dakika = 35

$$\alpha = \frac{|11.35 - 60.10|}{2} = \frac{215}{2} = 107,5^\circ$$

Cevap: C

8. 11:10
- $\Rightarrow$
- saat = 11 ve dakika = 10

$$\alpha = \frac{|11.d - 60.s|}{2} = \frac{|11.10 - 60.11|}{2} = \frac{550}{2} = 275^\circ$$

$$\Rightarrow 360^\circ - 275^\circ = 85^\circ$$

Cevap: C

TEST - 1 ÇÖZÜMLER

9. 6:20 $\Rightarrow$ saat = 6 ve dakika = 20

$$\alpha = \frac{|11.d - 60.s|}{2} = \frac{|11.20 - 60.6|}{2}$$

$$= \frac{|220 - 360|}{2} = \frac{140}{2} = 70^\circ$$

$$\Rightarrow 360^\circ - 70^\circ = 290^\circ$$

Cevap: D

10. 7:55 $\Rightarrow$ saat = 7 ve dakika = 55

$$\alpha = \frac{|11.d - 60.s|}{2} = \frac{|11.55 - 60.7|}{2} = \frac{185}{2} = 92,5^\circ$$

Cevap: B

11. 1:40 $\Rightarrow$ saat = 1 ve dakika = 40

$$\alpha = \frac{|11.d - 60.s|}{2} = \frac{|11.40 - 60.1|}{2} = \frac{|440 - 60|}{2}$$

$$= \frac{380}{2} = 190^\circ$$

Cevap: B

12. 9:45 $\Rightarrow$ saat = 9 ve dakika = 45

$$\alpha = \frac{|11.d - 60.s|}{2} = \frac{|11.45 - 60.9|}{2}$$

$$= \frac{|495 - 540|}{2} = 22,5^\circ$$

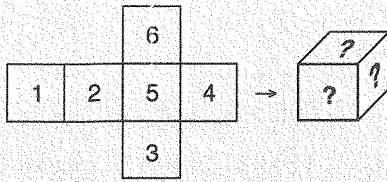
$$\Rightarrow 360^\circ - 22,5^\circ = 337,5^\circ$$

Cevap: A

ÜÇ BOYUTLU CİSİMLER (3D OBJECTS)

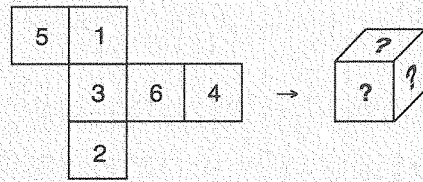
TEST - 1

1.



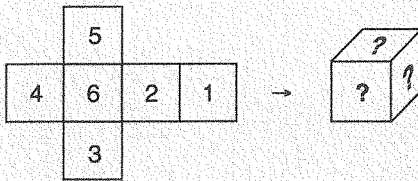
- A)  B)  C) 
- D)  E) 

3.



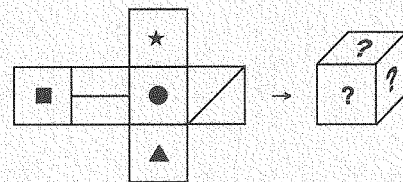
- A)  B)  C) 
- D)  E) 

2.



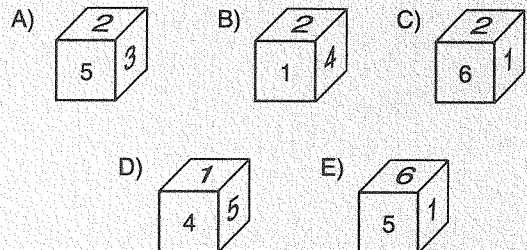
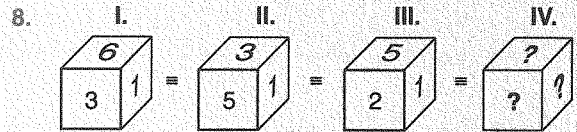
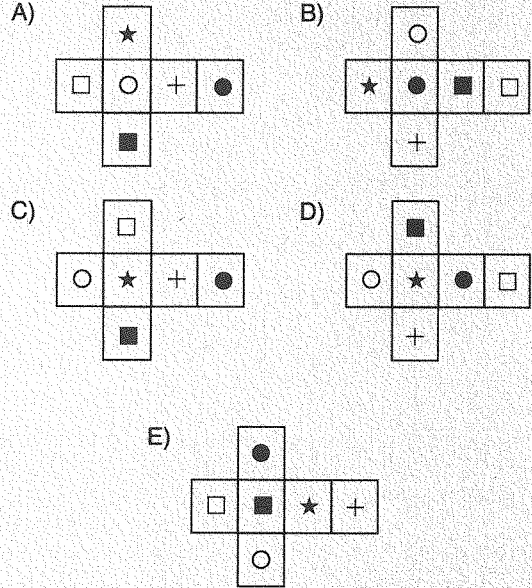
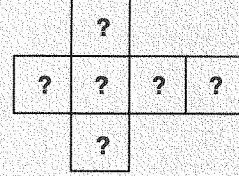
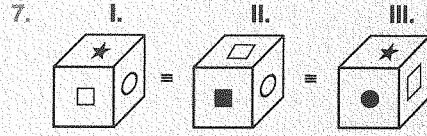
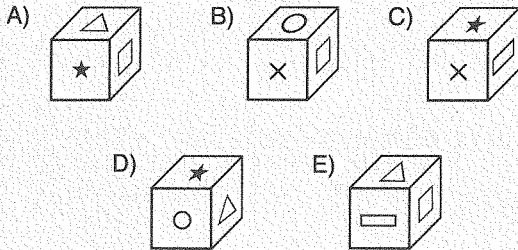
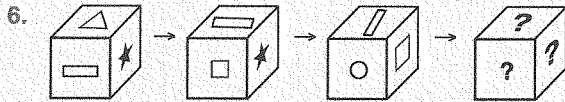
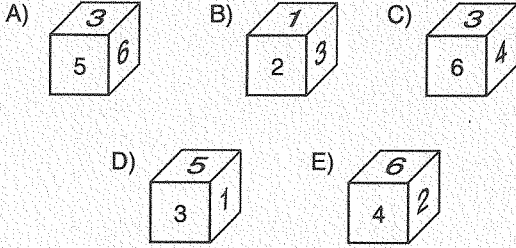
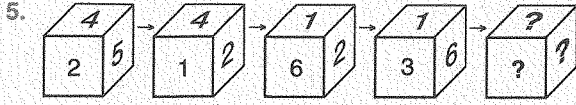
- A)  B)  C) 
- D)  E) 

4.

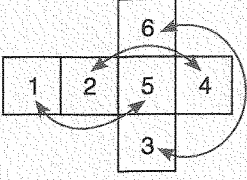


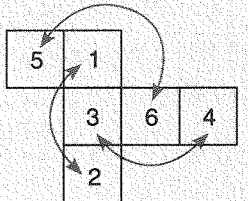
- A)  B)  C) 
- D)  E) 

TEST - 1

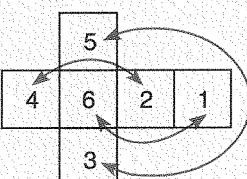
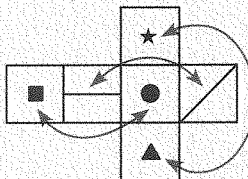


TEST - 1 ÇÖZÜMLER

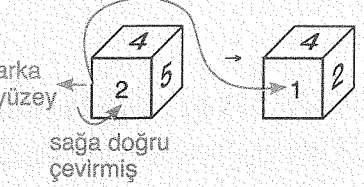
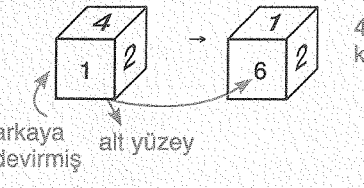
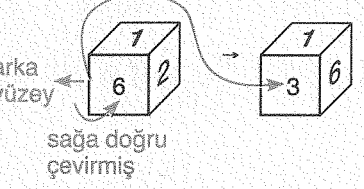
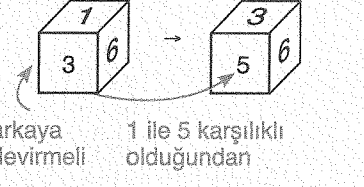
1.  1 ile 5
2 ile 4 $\Rightarrow$ karşılıklı yüzeyler
3 ile 6
- A şıkkı $\rightarrow$  1 ile 5 karşılıklı olmalıydı burada yanyana
- C şıkkı $\rightarrow$  2 ile 4 karşılıklı olmalıydı burada yanyana
- D şıkkı $\rightarrow$  3 ile 6 karşılıklı olmalıydı burada yanyana
- E şıkkı $\rightarrow$  2 ile 4 karşılıklı olmalıydı burada yanyana
- Cevap: B

3.  5 ile 6
1 ile 2 $\Rightarrow$ karşılıklı yüzeyler
3 ile 4
- B şıkkı $\rightarrow$  C şıkkı $\rightarrow$ 
- D şıkkı $\rightarrow$  E şıkkı $\rightarrow$ 
- Karşılıklı olması gereken yüzeyler yanyana verilmiş.
Cevap: A

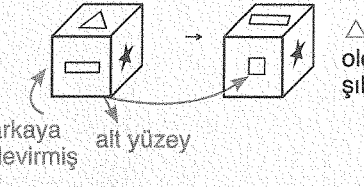
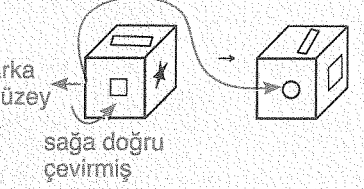
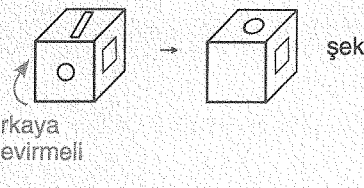
TASARI AKADEMİ YAYINLARI

2.  5 ile 3
4 ile 2 $\Rightarrow$ karşılıklı yüzeyler
6 ile 1
- A şıkkı $\rightarrow$  B şıkkı $\rightarrow$ 
- C şıkkı $\rightarrow$  E şıkkı $\rightarrow$ 
- Karşılıklı olması gereken yüzeyler yanyana verilmiş.
Cevap: D
4.  - ile /
■ ile ● $\Rightarrow$ karşılıklı yüzeyler
★ ile ▲
- A şıkkı $\rightarrow$  C şıkkı $\rightarrow$ 
- D şıkkı $\rightarrow$  E şıkkı $\rightarrow$ 
- Karşılıklı olması gereken yüzeyler yanyana verilmiş.
Cevap: B

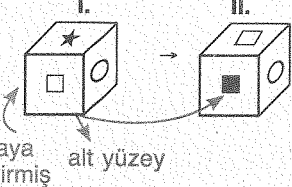
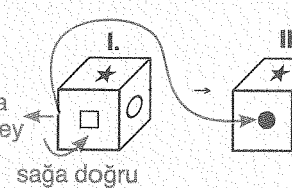
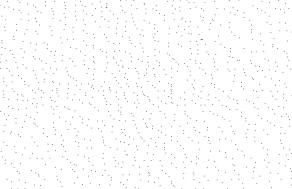
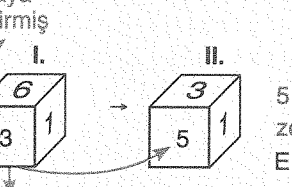
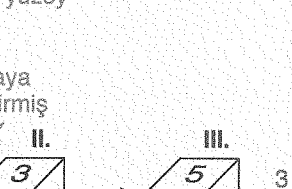
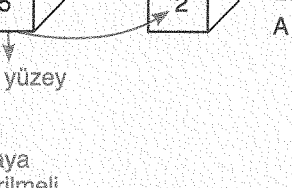
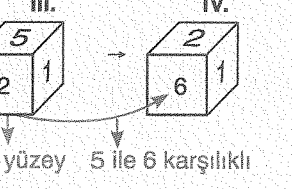
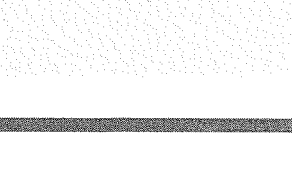
TEST - 1 ÇÖZÜMLER

5.  1 ile 5 karşılıklı
sağa doğru çevirmiş
-  4 ile 6 karşılıklı
arkaya devirmiş alt yüzey
-  2 ile 3 karşılıklı
arka yüzey sağa doğru çevirmiş
-  1 ile 5 karşılıklı olduğundan
arkaya devirmeli

Cevap: A

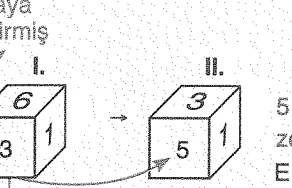
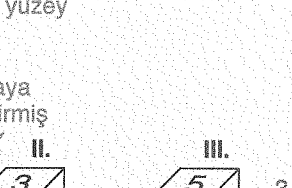
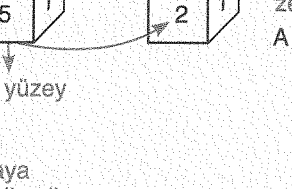
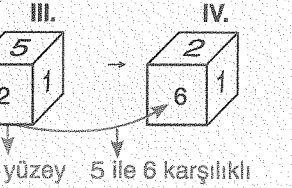
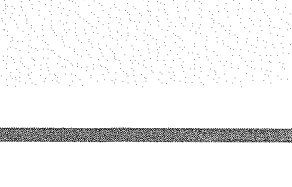
6.  Δ ile □ karşılıklı olduğundan A ve E şıkları elenir.
arka yüzey alt yüzey arkaya devirmiş
-  ★ ile ○ karşılıklı olduğundan D şıkkı elenir.
arka yüzey sağa doğru çevirmiş
-  şeklinde olur.
arka yüzey arkaya devirmeli

Cevap: B

7.  I.  II.  III.  ★ ile ■ karşılıklı olduğundan C, D ve E seçenekleri elenir.
arka yüzey alt yüzey arkaya devirmiş
-  I.  II.  III.  IV.  ● ile ○ karşılıklı olduğundan B seçeneği elenir.
arka yüzey sağa doğru çevirmiş

Cevap: A

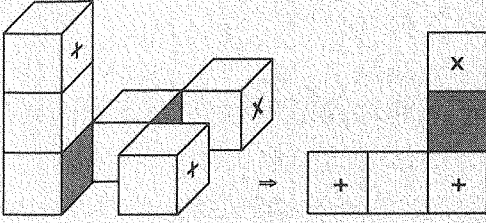
TASARI AKADEMİ YAYINLARI

8.  I.  II.  III.  IV.  5 ile 6 karşılıklı yüzeyler olduğundan E seçeneği elenir.
arka yüzey alt yüzey arkaya devirmiş
-  I. II. III. IV. 3 ile 2 karşılıklı yüzeyler olduğundan A seçeneği elenir.
arka yüzey alt yüzey arkaya devirmeli
- I. II. III. IV. 5 ile 6 karşılıklı

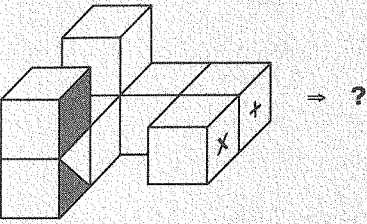
Cevap: C

TEST - 2

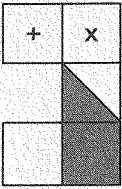
1. I.



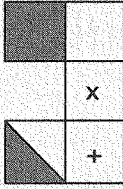
II.



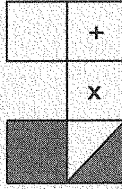
A)



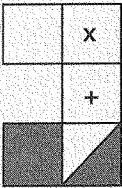
B)



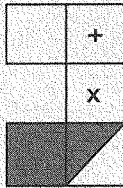
C)



D)



E)



2.

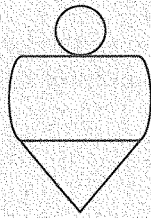


Şeklin açık hali aşağıdakilerden hangisidir?

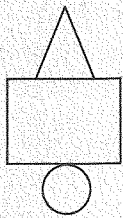
A)



B)



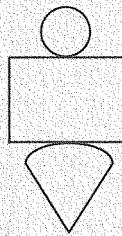
C)



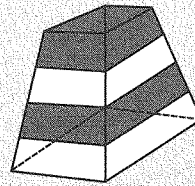
D)



E)

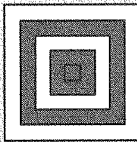


3.

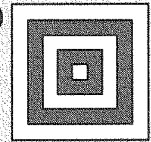


Verilen şeklin üstten görünümü aşağıdakilerden hangisidir?

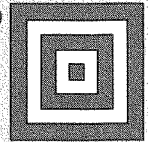
A)



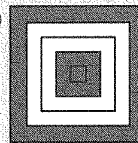
B)



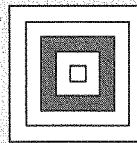
C)



D)

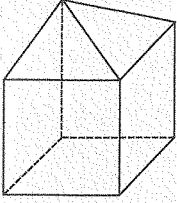


E)



TEST - 2

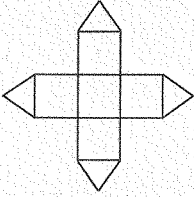
4.



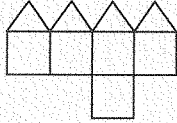
Yukarıdaki şeklin açılımlarından bazıları aşağıda verilmiştir.

Buna göre, aşağıdakilerden hangisi bu şeklin açılımlarından biri değildir?

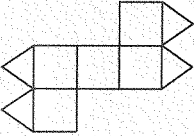
A)



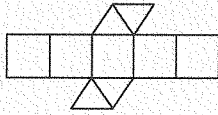
B)



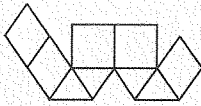
C)



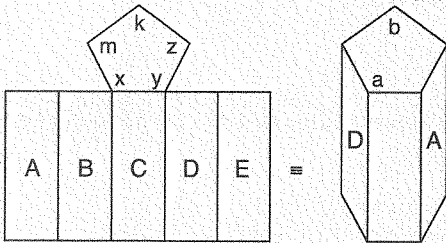
D)



E)



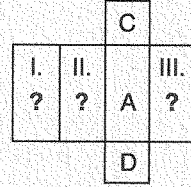
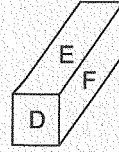
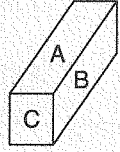
5.



$\Rightarrow a = ? , b = ?$

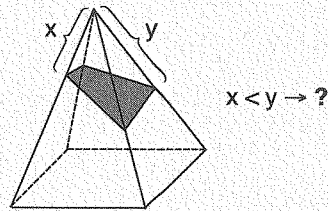
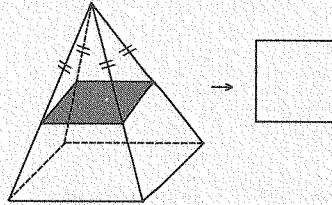
- | | a | b |
|----|---|---|
| A) | z | x |
| B) | m | y |
| C) | k | x |
| D) | k | y |
| E) | m | k |

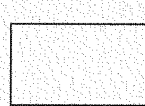
6.



- | | I. | II. | III. |
|----|----|-----|------|
| A) | B | F | E |
| B) | E | F | B |
| C) | F | B | E |
| D) | F | E | B |
| E) | B | E | F |

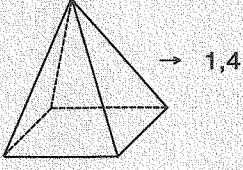
7.



- | | | | | | |
|----|---|----|---|----|---|
| A) |  | B) |  | C) |  |
| D) |  | E) |  | | |

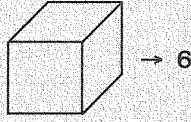
TEST - 2

8. I.



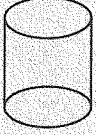
→ 1,4

III.



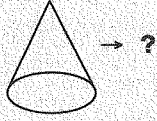
→ 6

II.



→ 2,1

IV.



→ ?

A) 3,1

B) 1,3

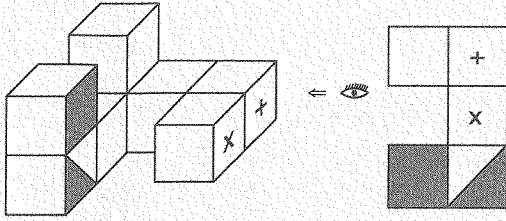
C) 2,1

D) 1,2

E) 1,1

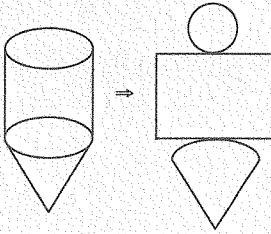
TEST - 2 ÇÖZÜMLER

1.



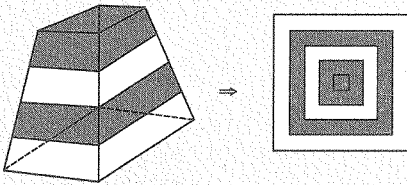
Cevap: C

2.



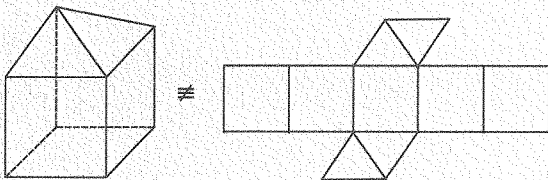
Cevap: E

3.



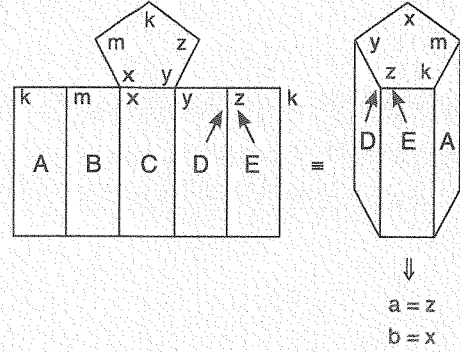
Cevap: A

4.



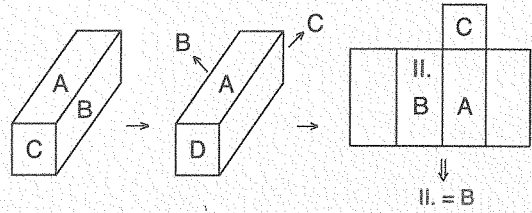
Cevap: D

5.



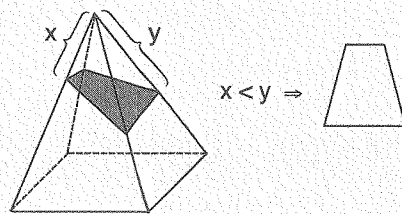
Cevap: A

6.



Cevap: C

7.

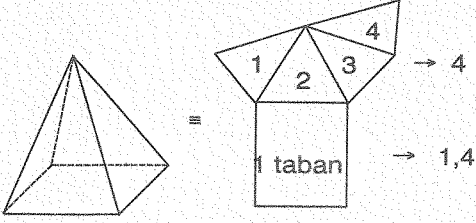


Cevap: D

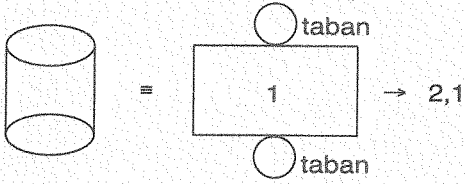
TEST - 2 ÇÖZÜMLER

8.

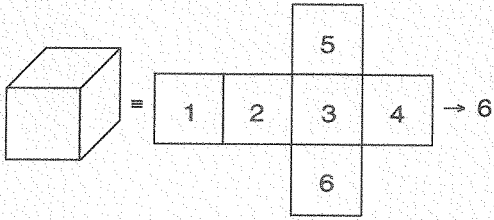
I.



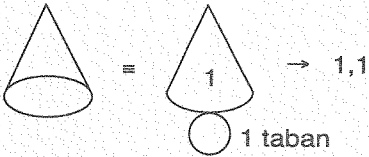
II.



III.

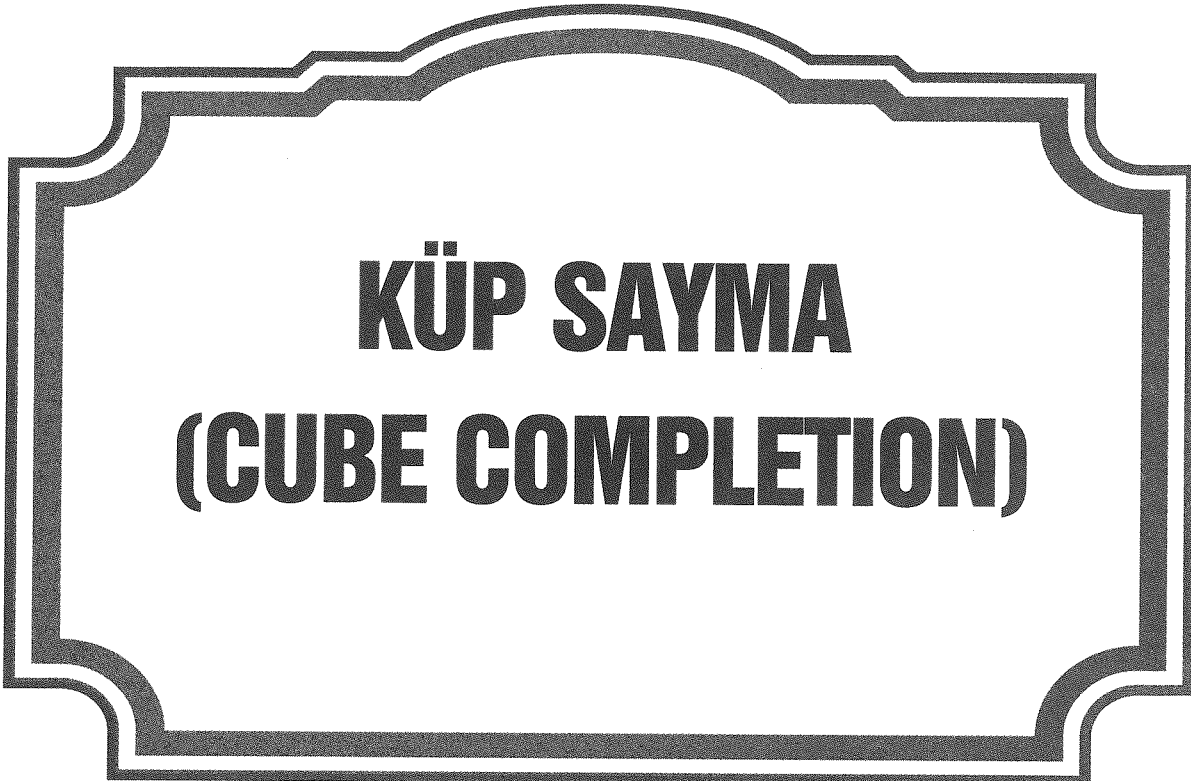


IV.



Cevap: E

TASARI AKADEMİ YAYINLARI

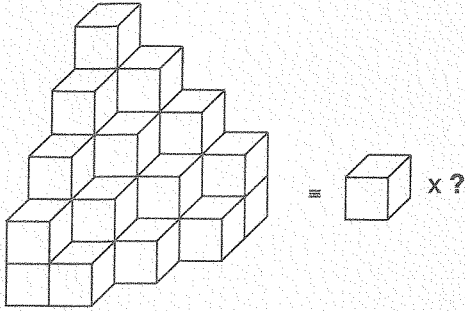


KÜP SAYMA

(CUBE COMPLETION)

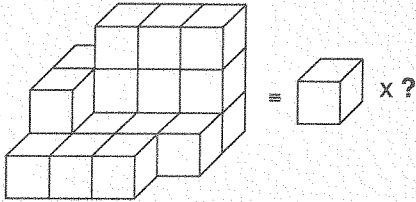
TEST - 1

1.



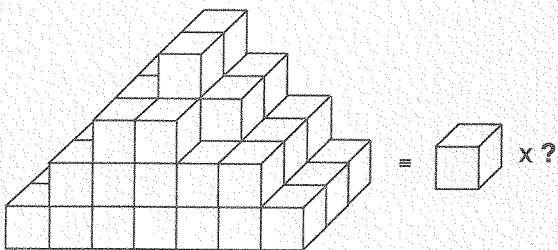
- A) 32 B) 33 C) 34 D) 35 E) 36

2.



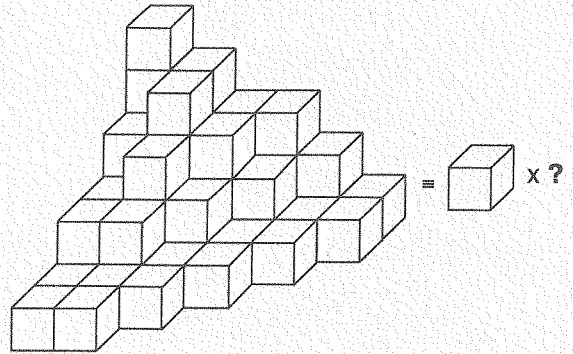
- A) 19 B) 21 C) 23 D) 24 E) 25

3.



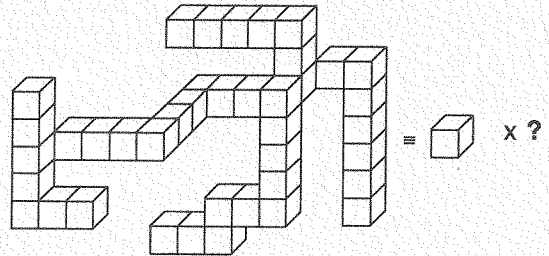
- A) 46 B) 48 C) 49 D) 50 E) 51

4.



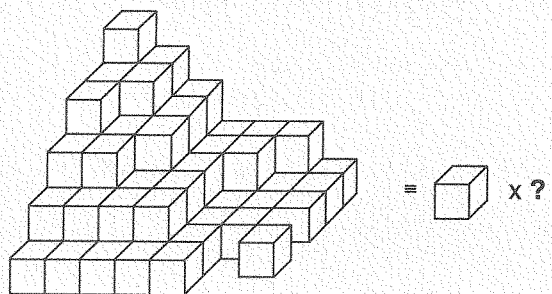
- A) 56 B) 55 C) 54 D) 53 E) 52

5.



- A) 40 B) 41 C) 42 D) 43 E) 44

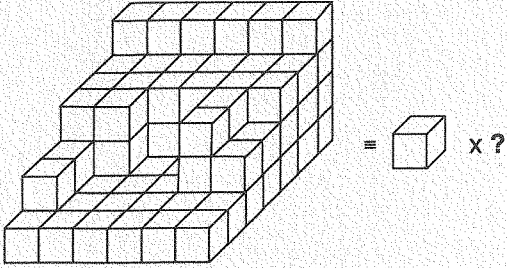
6.



- A) 77 B) 78 C) 79 D) 80 E) 81

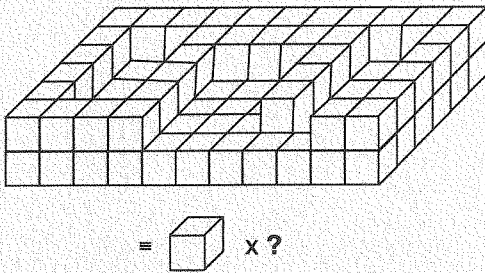
TEST - 1

7.



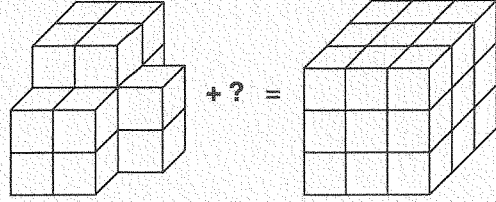
- A) 96 B) 97 C) 99 D) 100 E) 102

8.

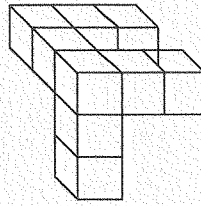


- A) 98 B) 100 C) 105 D) 106 E) 108

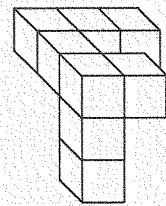
9.



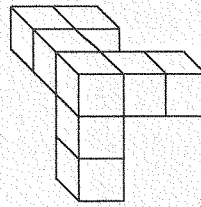
A)



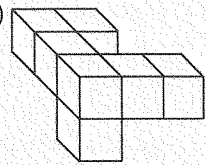
B)



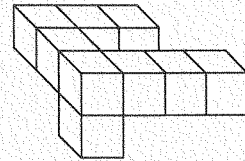
C)



D)

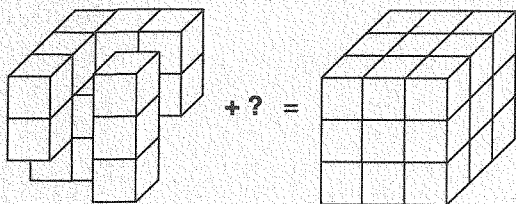


E)

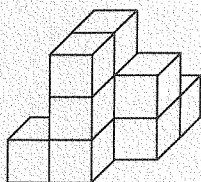


TEST - 1

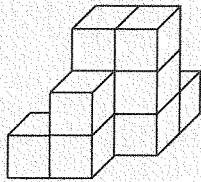
10.



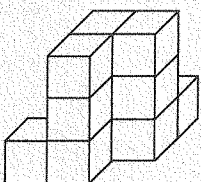
A)



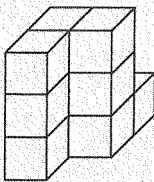
B)



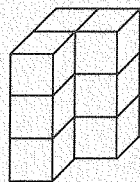
C)



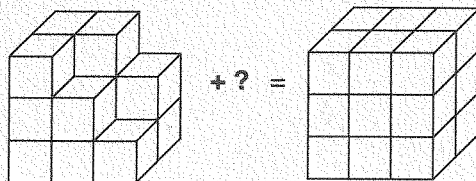
D)



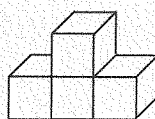
E)



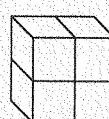
11.



A)



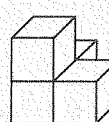
B)



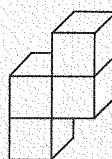
C)



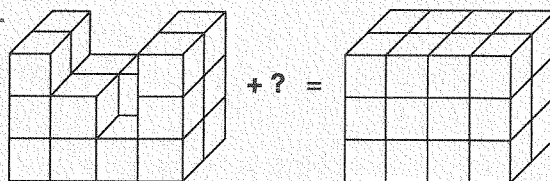
D)



E)



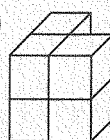
12.



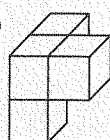
A)



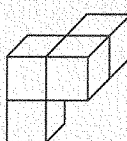
B)



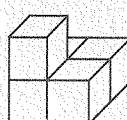
C)



D)

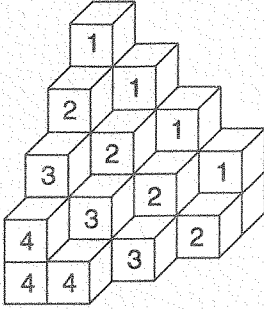


E)



TEST - 1 ÇÖZÜMLER

1.

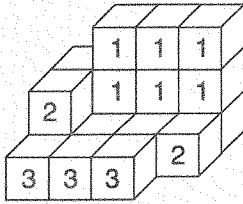


Küplerin üzerinde verilen sayılar kendisi dahil arkasındaki küplerin sayısını belirtiyor.

$$4.(1) + 4.(2) + 3.(3) + 3.(4) = 33$$

Cevap: B

2.

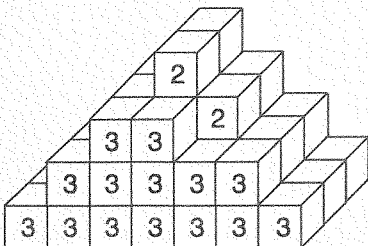


Küplerin üzerinde verilen sayılar kendisi dahil arkasındaki küplerin sayısını belirtiyor.

$$6.(1) + 2.(2) + 3.(3) = 19$$

Cevap: A

3.

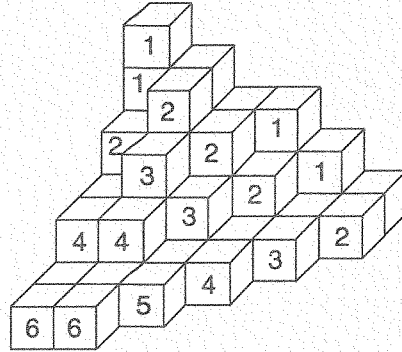


Küplerin üzerinde verilen sayılar kendisi dahil arkasındaki küplerin sayısını belirtiyor.

$$14.(3) + 2.(2) = 46$$

Cevap: A

4.

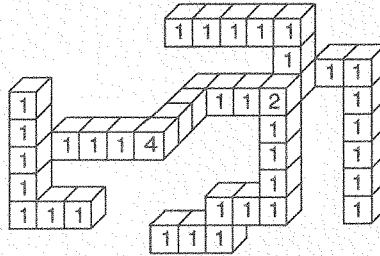


Küplerin üzerinde verilen sayılar kendisi dahil arkasındaki küplerin sayısını belirtiyor.

$$4.(1) + 5.(2) + 3.(3) + 3.(4) + 1.(5) + 2.(6) = 52$$

Cevap: E

5.

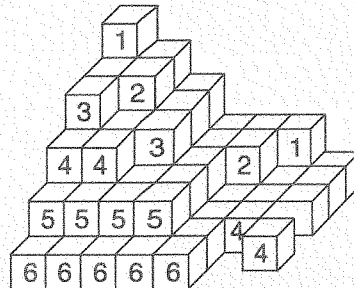


Küplerin üzerinde verilen sayılar kendisi dahil arkasındaki küplerin sayısını belirtiyor.

$$34.(1) + 1.(4) + 1.(2) = 40$$

Cevap: A

6.



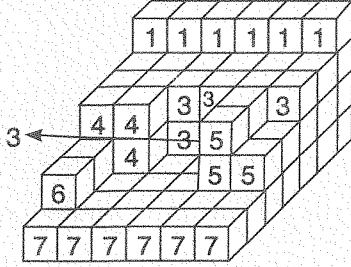
Küplerin üzerinde verilen sayılar kendisi dahil arkasındaki küplerin sayısını belirtiyor.

$$2.(1) + 2.(2) + 2.(3) + 4.(4) + 4.(5) + 5.(6) = 78$$

Cevap: B

TEST - 1 ÇÖZÜMLER

7.

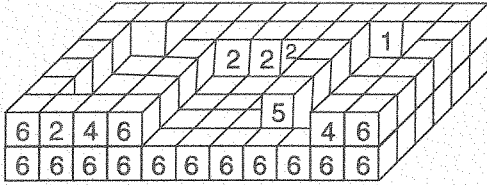


Küplerin üzerinde verilen sayılar kendisi dahil arkasındaki küplerin sayısını belirtiyor.

$$6.(1) + 5.(3) + 3.(4) + 3.(5) + 1.(6) + 6.(7) = 96$$

Cevap: A

8.

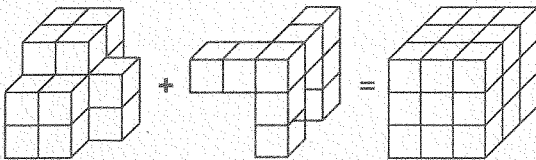


Küplerin üzerinde verilen sayılar kendisi dahil arkasındaki küplerin sayısını belirtiyor.

$$1.(1) + 4.(2) + 2.(4) + 1.(5) + 14.(6) = 106$$

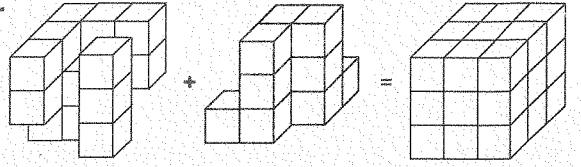
Cevap: D

9.



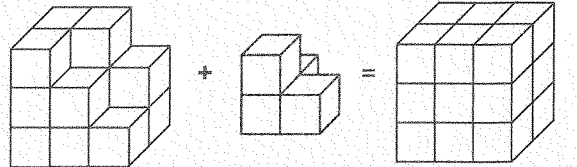
Cevap: A

10.



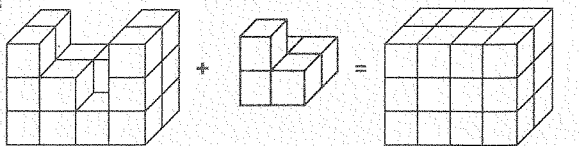
Cevap: C

11.



Cevap: D

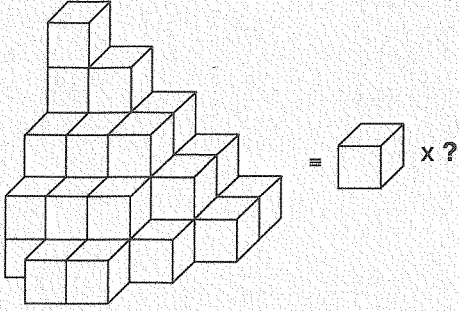
12.



Cevap: E

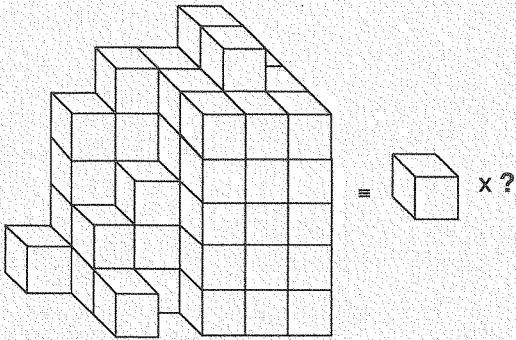
TEST - 2

1.



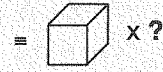
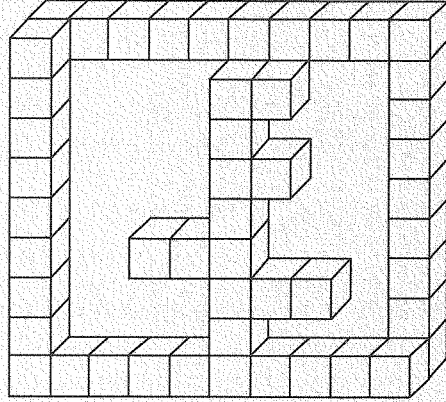
- A) 36 B) 37 C) 38 D) 42 E) 44

2.



- A) 62 B) 63 C) 64 D) 65 E) 66

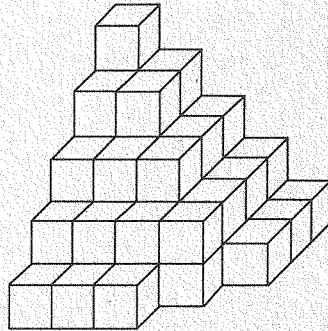
3.



- A) 48 B) 49 C) 50 D) 52 E) 54

TASARI AKADEMİ YAYINLARI

4.



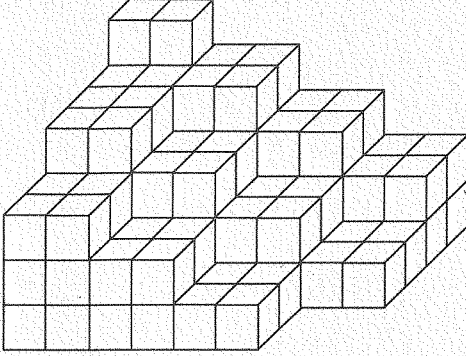
Yukarıdaki şekilde kaç küp vardır?

How many cubes are there given figure above?

- A) 56 B) 54 C) 52 D) 50 E) 48

TEST - 2

5.

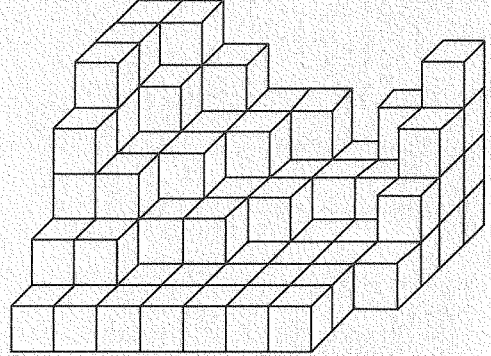


Yukarıdaki şekilde kaç küp vardır?

How many cubes are there given figure above?

- A) 122 B) 121 C) 119 D) 118 E) 116

7.

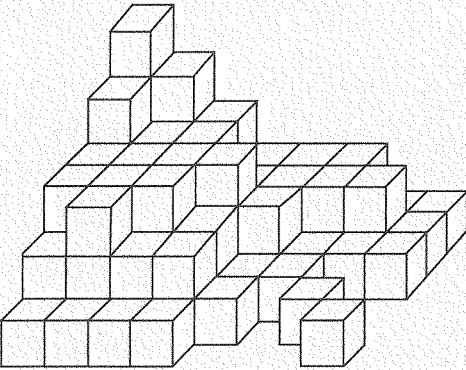


Yukarıdaki şekilde kaç küp vardır?

How many cubes are there given figure above?

- A) 110 B) 108 C) 105 D) 104 E) 103

6.



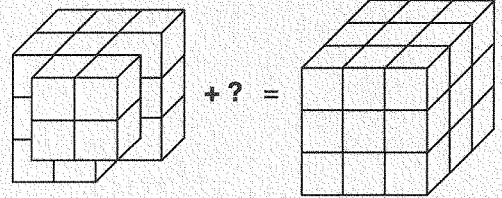
Yukarıdaki şekilde kaç küp vardır?

How many cubes are there given figure above?

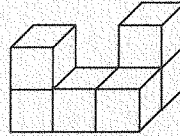
- A) 84 B) 85 C) 87 D) 88 E) 89

TASARI AKADEMİ YAYINLARI

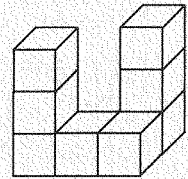
8.



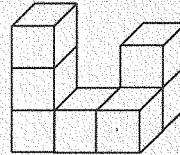
A)



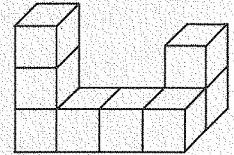
B)



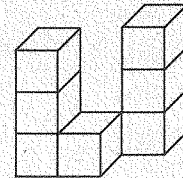
C)



D)

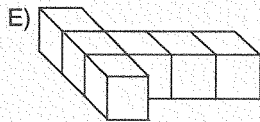
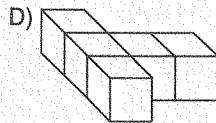
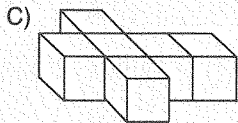
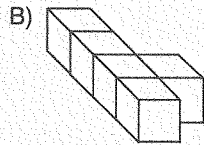
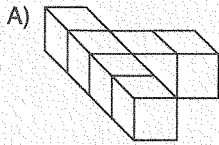
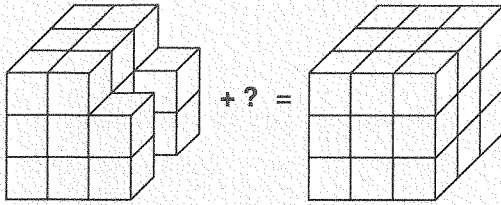


E)

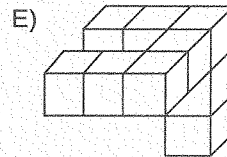
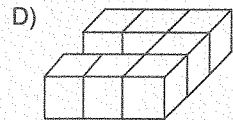
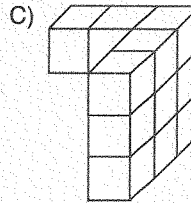
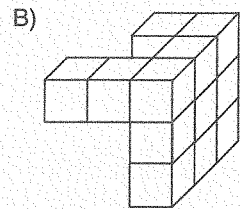
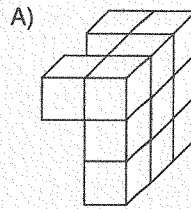
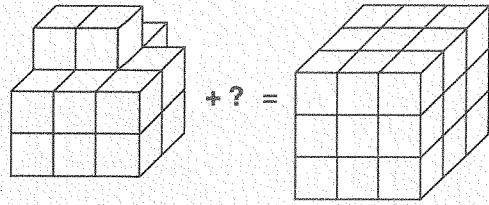


TEST - 2

9.

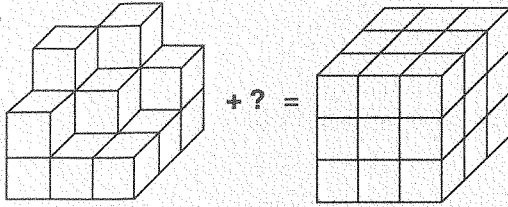


10.

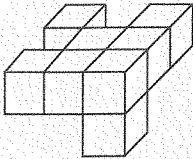


TEST - 2

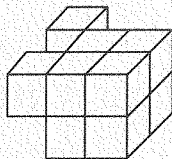
11.



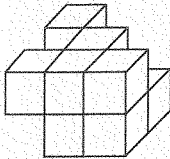
A)



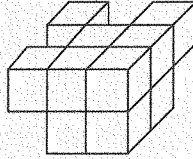
B)



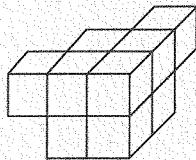
C)



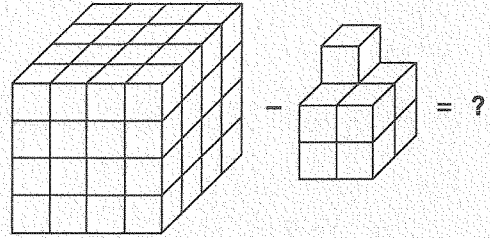
D)



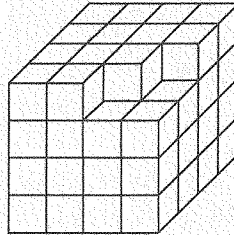
E)



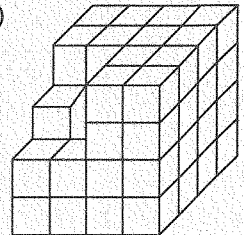
12.



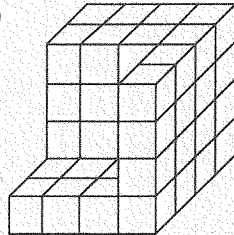
A)



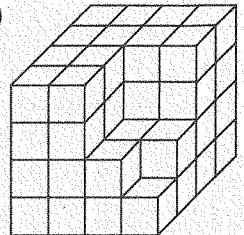
B)



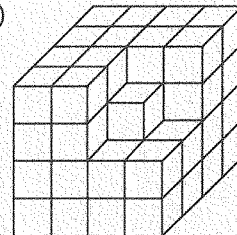
C)



D)

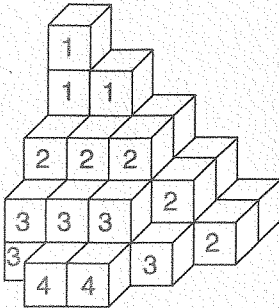


E)



TEST - 2 ÇÖZÜMLER

10

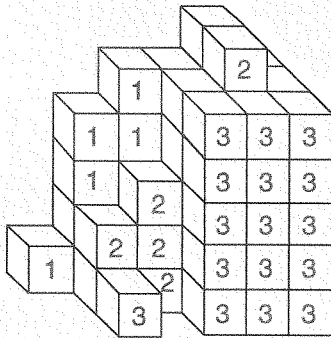


Küplerin üzerinde verilen sayılar kendisi dahil arka-
sındaki küplerin sayısını belirtiyor.

$$3.(1) + 5.(2) + 5.(3) + 2.(4) = 36$$

Cevap: A

2.

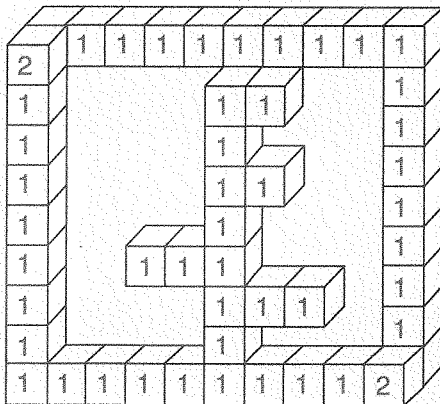


Küplerin üzerinde verilen sayılar kendisi dahil arka sındaki küplerin sayısını belirtiyor.

$$5.(1) + 5.(2) + 16.(3) = 63$$

Cevap: B

3.

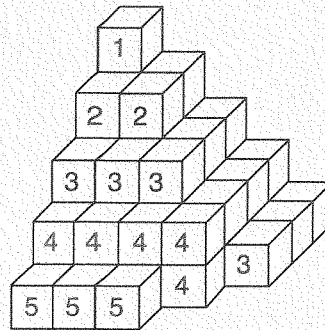


Küplerin üzerinde verilen sayılar kendisi dahil arkasındaki küplerin sayısını belirtiyor.

$$45.(1) + 2.(2) = 49$$

Cevap: B

செய்து

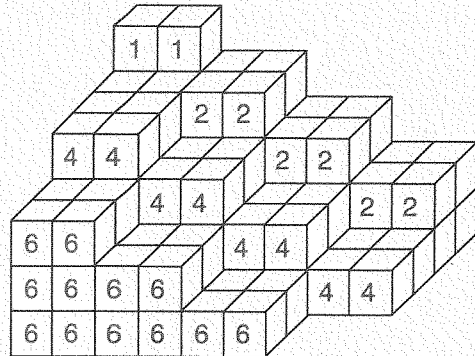


Küplerin üzerinde verilen sayılar kendisi dahil arkasındaki küplerin sayısını belirtiyor.

$$1.(1) + 2.(2) + 4.(3) + 5.(4) + 3.(5) = 52$$

Cevap: C

5.

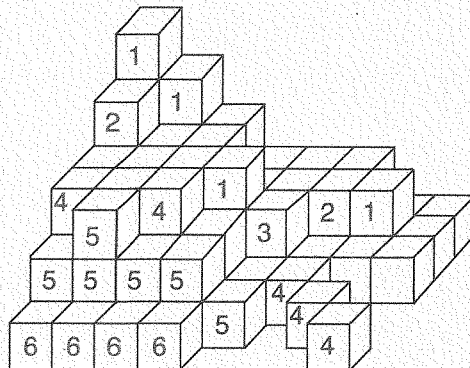


Küplerin üzerinde verilen sayılar kendisi dahil arkasındaki küplerin sayısını belirtiyor.

$$2.(1) + 6.(2) + 8.(4) + 12.(6) = 118$$

Cevap: D

6.



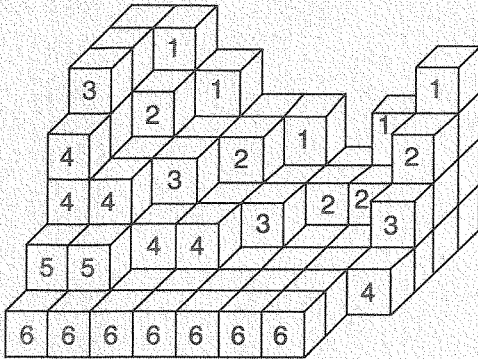
Küplerin üzerinde verilen sayılar kendisi dahil arkasındaki küplerin sayısını belirtiyor.

$$4.(1) + 2.(2) + 1.(3) + 5.(4) + 6.(5) + 4.(6) = 85$$

Cevap: B

TEST - 2 ÇÖZÜMLER

7.

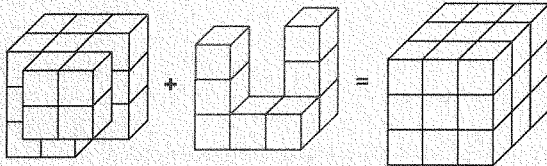


Küplerin üzerinde verilen sayılar kendisi dahil arka-
sındaki küplerin sayısını belirtiyor.

$$5.(1) + 5.(2) + 4.(3) + 6.(4) + 2.(5) + 7.(6) = 103$$

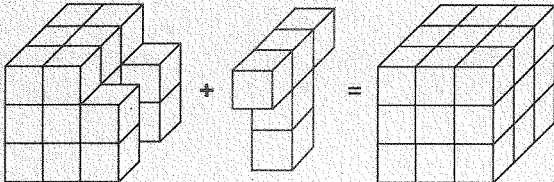
Cevap: E

8.



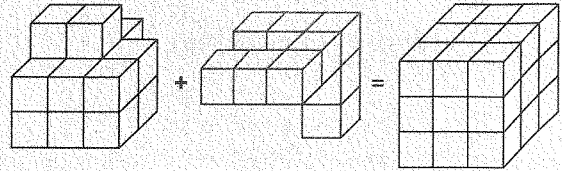
Cevap: B

9.



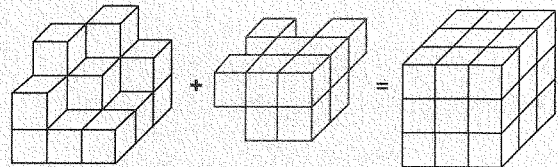
Cevap: D

Q. 10. **Q. 10.**



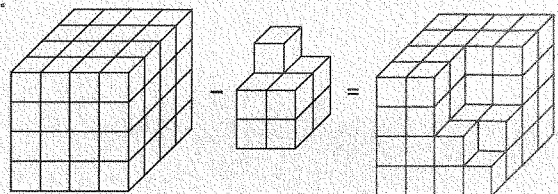
Cevap: E

words words



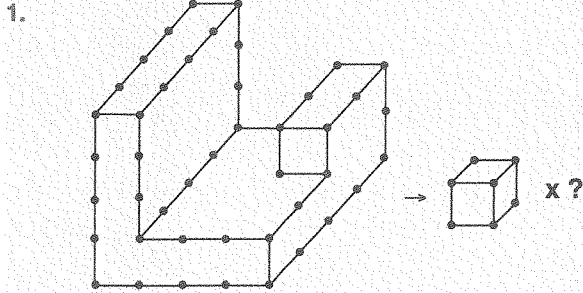
Cevap: D

12.

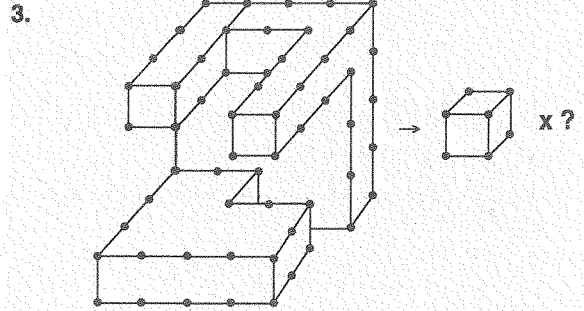


Cevap: D

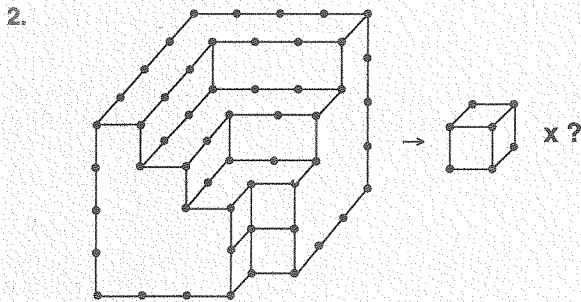
TEST - 3



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

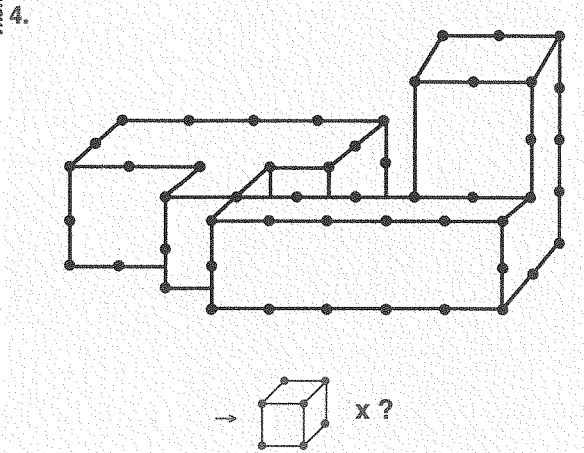


- A) 30 B) 31 C) 32 D) 33 E) 34



- A) 49 B) 50 C) 51 D) 52 E) 53

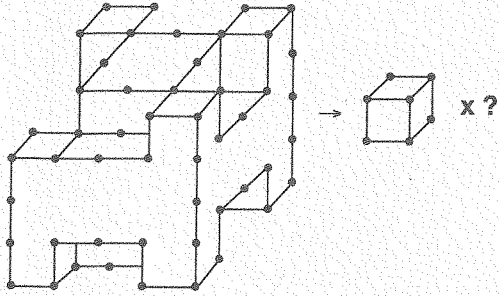
TASARI AKADEMİ YAYINLARI



- A) 37 B) 36 C) 35 D) 34 E) 33

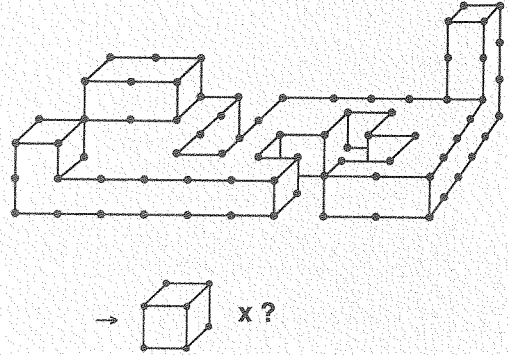
TEST - 3

5.



- A) 38 B) 39 C) 40 D) 41 E) 42

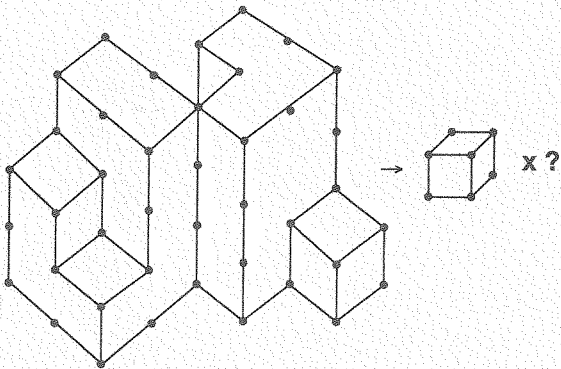
7.



- A) 32 B) 33 C) 34 D) 35 E) 36

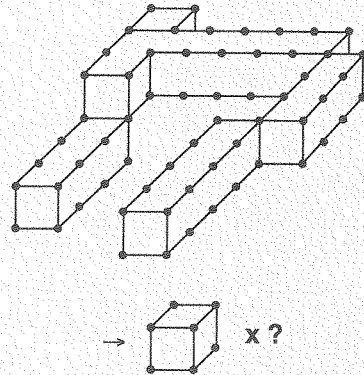
TASARI AKADEMİ YAYINLARI

6.



- A) 16 B) 17 C) 19 D) 20 E) 22

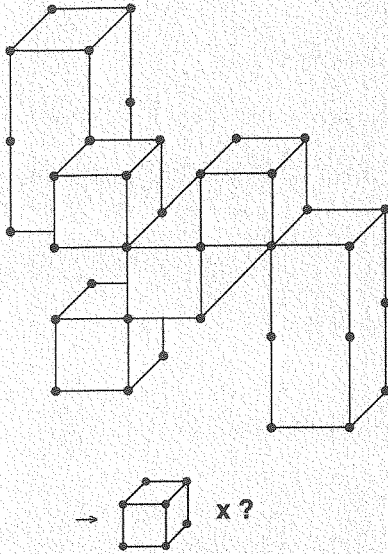
8.



- A) 18 B) 19 C) 20 D) 21 E) 22

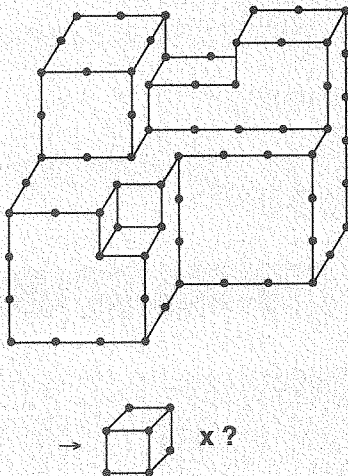
TEST - 3

9.



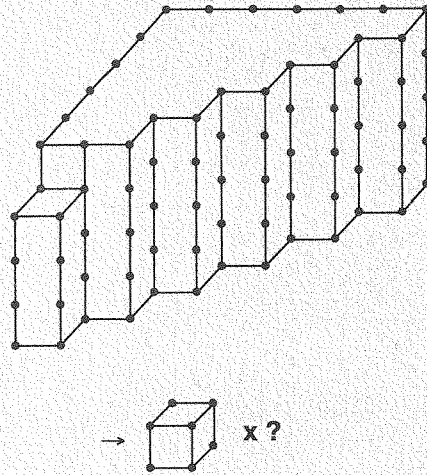
- A) 6 B) 7 C) 8 D) 9 E) 10

10.



- A) 72 B) 70 C) 69 D) 68 E) 67

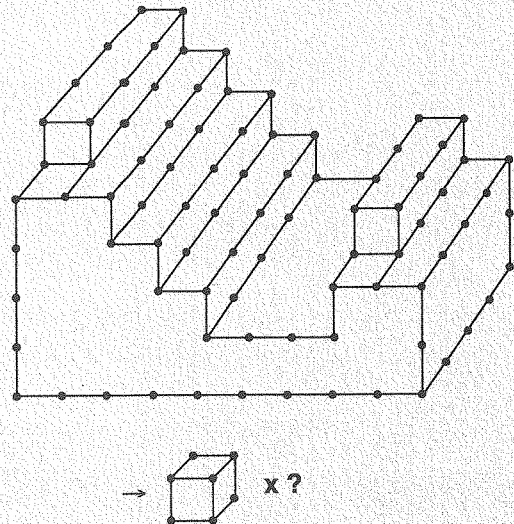
2000



- A) 80 B) 81 C) 82 D) 83 E) 84

TASARI AKADEMİ YAYINLARI

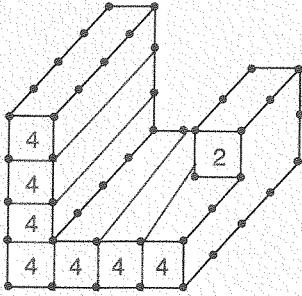
12.



- A) 82 B) 84 C) 86 D) 88 E) 90

TEST - 3 ÇÖZÜMLER

1.

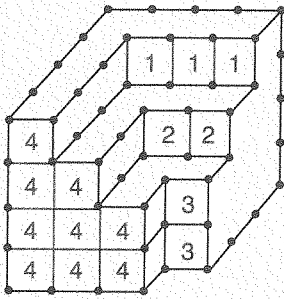


Küplerin üzerinde verilen sayılar kendisi dahil arkasındaki küplerin sayısını belirtiyor.

$$1.(2) + 7.(4) = 30$$

Cevap: C

2.

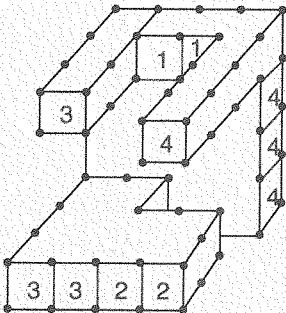


Küplerin üzerinde verilen sayılar kendisi dahil arkasındaki küplerin sayısını belirtiyor.

$$3.(1) + 2.(2) + 2.(3) + 9.(4) = 49$$

Cevap: A

3.

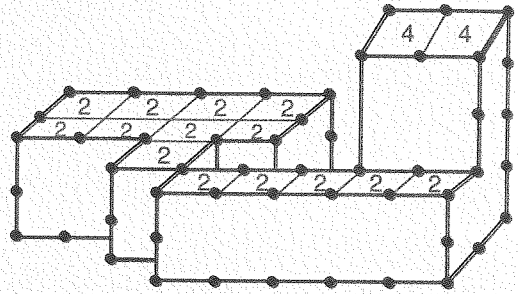


Küplerin üzerinde verilen sayılar kendisi dahil arkasındaki küplerin sayısını belirtiyor.

$$2.(1) + 2.(2) + 3.(3) + 4.(4) = 31$$

Cevap: E

4.

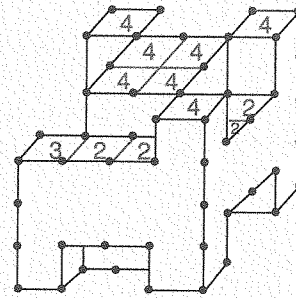


Küplerin üzerinde verilen sayılar kendisi dahil altındaki küplerin sayısını belirtiyor.

$$14.(2) + 2.(4) = 36$$

Cevap: B

5.

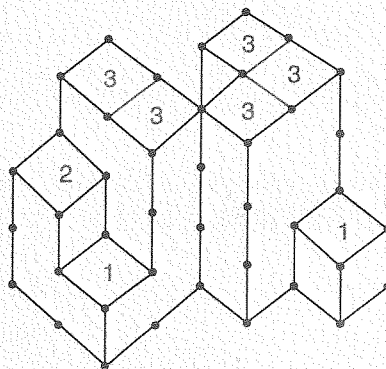


Küplerin üzerinde verilen sayılar kendisi dahil altındaki küplerin sayısını belirtiyor.

$$4.(2) + 1.(3) + 7.(4) = 39$$

Cevap: B

6.



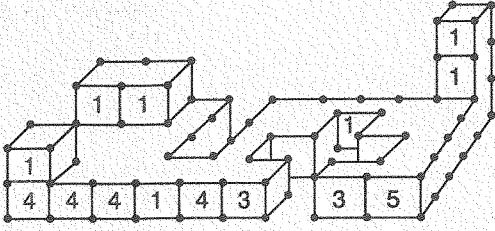
Küplerin üzerinde verilen sayılar kendisi dahil altındaki küplerin sayısını belirtiyor.

$$2.(1) + 1.(2) + 5.(3) = 19$$

Cevap: C

TEST - 3 ÇÖZÜMLER

7.

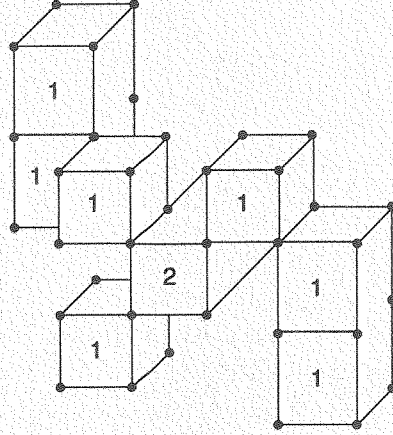


Küplerin üzerinde verilen sayılar kendisi dahil arkasındaki küplerin sayısını belirtiyor.

$$7.(1) + 2.(3) + 4.(4) + 1.(5) = 34$$

Cevap: C

9.

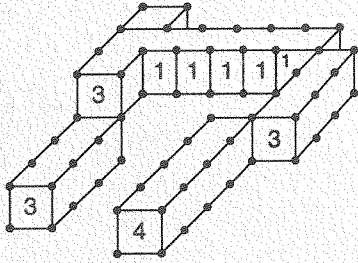


Küplerin üzerinde verilen sayılar kendisi dahil arkasındaki küplerin sayısını belirtiyor.

$$7.(1) + 1.(2) = 9$$

Cevap: D

8.

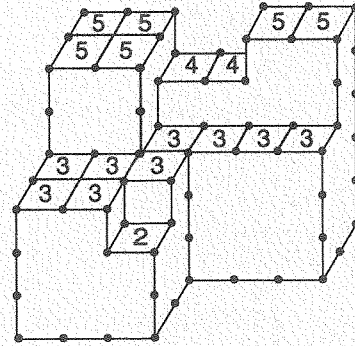


Küplerin üzerinde verilen sayılar kendisi dahil arkasındaki küplerin sayısını belirtiyor.

$$5.(1) + 3.(3) + 1.(4) = 18$$

Cevap: A

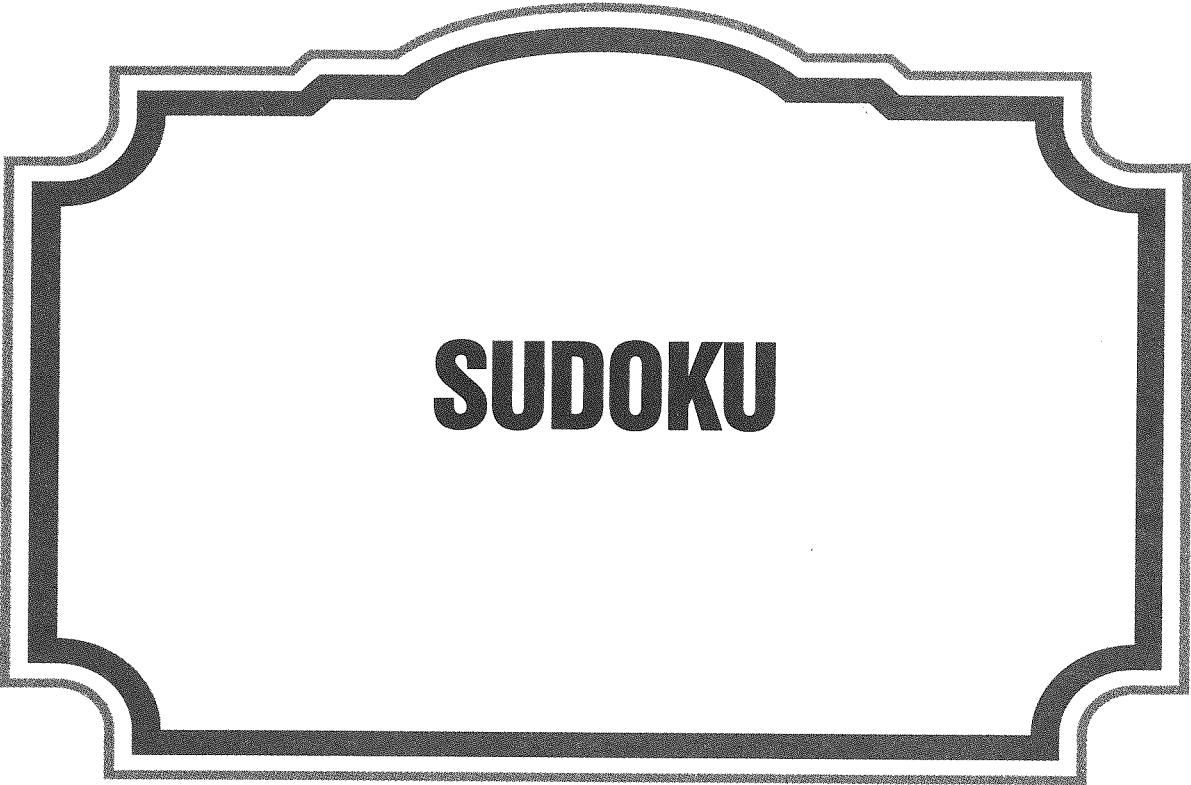
10.



Küplerin üzerinde verilen sayılar kendisi dahil altındaki küplerin sayısını belirtiyor.

$$1.(2) + 9.(3) + 2.(4) + 6.(5) = 67$$

Cevap: E



SUDOKU

TEST - 1

1.

3	12	
7		13

Bazı kutucuklarında sayılar verilmiş olan yukarıdaki karenin her kutucuğunda bir sayı vardır.

Bu karenin her satırındaki, her sütunundaki ve her köşegenindeki sayıların toplamı aynı sabit sayıya eşit olduğuna göre, bu sabit sayı kaçtır?

- A) 22 B) 24 C) 26 D) 27 E) 29

2.

9		
	30	
		15

Yukarıdaki şeklin boş kutucuklarına 2, 4, 5, 6, 16, 24 sayıları her satırdaki sayının toplamı birbirine eşit olacak şekilde yerleştirilirse her satırdaki sayıların toplamı kaç olur?

- A) 35 B) 36 C) 37 D) 38 E) 39

3.

		13
12		
	14	

Yukarıdaki karenin boş kutularına 4, 5, 6, 8, 9, 10 sayıları, satır ve sütun toplamaları eşit olacak şekilde yerleştirilirse her bir sütun toplamı kaç olur?

- A) 23 B) 24 C) 25 D) 27 E) 29

4.

		9
14	x	
	4	13

Yukarıdaki şeklin boş kutularına 2, 3, 7, 8, 12 sayılarını her satırındaki, her sütunundaki ve köşegenlerindeki sayıların toplamı aynı sabit sayıya eşit olduğuna göre x kaçtır?

- A) 2 B) 3 C) 7 D) 8 E) 12

TEST - 1

5.

1.	2.	3.	4.
		11	12
			10

Sütunları yukarıdaki gibi numaralandırılmış olan tablonun boş olan kutucuklarına 1'den 9'a kadar olan sayılar aşağıdaki kurallara göre yazılıyor:

- Her satırdaki sayıların toplamı birbirine eşittir.
- Her sütundaki sayılar soldan sağa doğru artmaktadır.
- 1. ve 3. sütundaki sayılar tek sayı, 2. ve 4. sütundaki sayılar çift sayıdır.

Buna göre, 3 ile aynı satırda, 6 ile aynı sütunda olan sayı hangisidir?

- A) 2 B) 4 C) 8 D) 10 E) 12

6., 7. ve 8. soruları aşağıdaki tabloya göre cevaplayınız.

A	+	B	+	C	→ 24
÷		÷		X	
3	+	4	-	D	→ 5
x		+		+	
T	-	K	-	E	→ 0
↓		↓		↓	
18		3		19	

Verilen işlem şemasında 1'den 9'a kadar olan rakamlar bir kez kullanılmıştır. Oklarla gösterilen sayılar bulundukları satır veya sütunun işlemleri sonucunda elde edilmiştir.

6. E sayısı kaçtır?

- A) 2 B) 5 C) 6 D) 7 E) 8

7. $\frac{A \cdot D^2}{T} = ?$

- A) 1 B) 6 C) 9 D) 16 E) 25

8. $\frac{B^2 - D^2}{E} = ?$

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

9.

9		
	30	
		15

Yukarıdaki şeklin boş kutucuklarına 2, 4, 5, 6, 16, 24 sayıları her satırdaki sayının toplamı birbirine eşit olacak şekilde yerleştirilirse 15 sayısının üstündeki kutucuğa hangi sayılar yazılabilir?

- A) 2 ve 5 B) 2 ve 6 C) 4 ve 6
D) 5 ve 6 E) 5 ve 16

10.

A	C			
	B	C		
D		x	B	
	E	B	A	

Boş olan kutucuklar A, B, C, D, E harfleri ile doldurulduğunda hiçbir satır ve hiçbir sütunda harf tekrarı bulunmayacağına göre, x yerine hangi harf gelmelidir?

- A) E B) D C) C D) B E) A

TEST - 1 ÇÖZÜMLER

1.

3	12	x
	a	
7		13

$$\Rightarrow 3 + 12 + x$$

↓
sabit sayı

$$7 + a + x$$

↓
sabit sayı

$$\Rightarrow 7 + a + x = 3 + 12 + x$$

$$a = 8$$

3		
	a = 8	
		13

$$\Rightarrow \text{Sabit sayı} = 3 + 8 + 13 = 24 \text{ olur.}$$

Cevap: B

2.

9		
	30	
		15

$$\rightarrow \text{Toplam } x$$

$$\rightarrow \text{Toplam } x$$

$$\rightarrow \text{Toplam } x$$

$$\begin{array}{r} x \\ + \\ 3x \\ \hline \end{array}$$

$$3x = 2 + 4 + 5 + 6 + 9 + 15 + 16 + 24 + 30$$

$$3x = 111$$

$$x = 37 \text{ olur.}$$

Cevap: C

3.

		13
12		
	14	

↓
Toplam x

↓
Toplam x

↓
Toplam x

$$3x = 4 + 5 + 6 + 8 + 9 + 10 + 12 + 13 + 14$$

$$3x = 81$$

$$x = 27$$

Cevap: D

4.

		9
14	x	
	4	13

3 x 3

Satır, sütun ve köşegen toplamaları eşit ise;

$$x = \frac{\text{Yerleştirilecek sayıların toplamı}}{3 \times 3}$$

$$x = \frac{2 + 3 + 4 + 7 + 8 + 9 + 12 + 13 + 14}{9}$$

$$= \frac{72}{9} = 8 \text{ olur.}$$

Cevap: D

TEST - 1 ÇÖZÜMLER

5.

		11	12
			10

 → Toplam x
→ Toplam x
→ Toplam x

$$x = \frac{1 + 2 + 3 + \dots + 11 + 12}{3} = 26$$

1	2	11	12
		9	10

 → 26 olması için boş kutucuklara yerleştirilecek sayıların toplamı
 $26 - 11 - 12 = 3 (1 + 2)$ olmalı.
↓
Sayılar soldan sağa doğru arttığında 10'un arkasında 9 olmalı.

5	6	7	8
3	4	9	10

 → Kalan sayılar yerleştirildi.
↓
26 olması için boş kutucuklara yerleştirilecek sayıların toplamı;
 $26 - 9 - 10 = 7(3 + 4)$ olmalı.

O halde;

1	2	11	12
5	6	7	8
3	4	9	10

Cevap: B

6. $24 = 9 + 8 + 7$

A = 9	+	B = 8	+	C = 7
÷		÷		x
3	+	4	-	D
x		+		+
T	-	K	-	E

$9 \div 3 \times T = 18$
 $3 \times T = 18$
 $T = 6$

$7 \times 2 + E = 19$
 $14 + E = 19$
 $E = 5$

$3 + 4 - D = 5$
 $7 - D = 5$
 $D = 2$

$8 \div 4 + K = 3$
 $2 + K = 3$
 $K = 1$

Cevap: B

7. $A = 9, D = 2, T = 6$

$$\Rightarrow \frac{A \cdot D^2}{T} = \frac{9 \cdot 2^2}{6} = \frac{36}{6} = 6$$

Cevap: B

8. $B = 8, D = 2, E = 5$

$$\Rightarrow \frac{B^2 - D^2}{E} = \frac{8^2 - 2^2}{5} = \frac{64 - 4}{5} = \frac{60}{5} = 12$$

Cevap: D

TEST - 1 ÇÖZÜMLER

9.

9		
	30	
		15

→ Toplam x → Toplam $x = 37$ ise

$$37 - 30 = 7 (2 + 5)$$

→ Toplam x

$$\begin{array}{r} x \\ + \\ x \\ \hline 3x \end{array}$$

$$3x = 2 + 4 + 5 + 6 + 9 + 15 + 16 + 24 + 30$$

$$3x = 111$$

$$x = 37 \text{ olur.}$$

Cevap: A

10.

A	C			
	B	C		
D	A		B	
	D			
	E	B	A	

A ve D
harfleri
eksikti

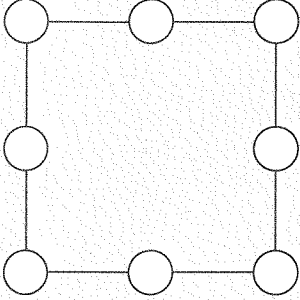
A	C			
	B	C		
D	A	E	B	C
	E	B	A	

C ve E harfleri
eksik

Cevap: A

TEST - 2

1. ve 2. soruları aşağıdaki şekle göre cevaplayınız.



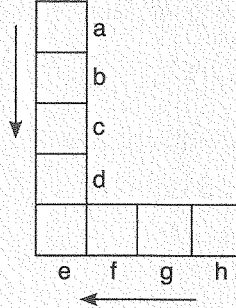
Kenarları üzerinde 8 tane çember bulunan karesel şekil verilmiştir. 1'den 8'e kadar olan rakamların her biri çemberlerden birine yerleştiriliyor.

1. Yapılan yerleştirmelerden birinde her bir kenar üzerinde bulunan rakamlar toplamı 13'tür.

Bu yerleştirmede köşelerde bulunan rakamların toplamı kaçtır?

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

3. ve 4. soruları aşağıdaki şekle göre cevaplayınız.



1'den 8'e kadar olan rakamlar birer kez kullanılarak artarak şekilde yerleştiriliyor.

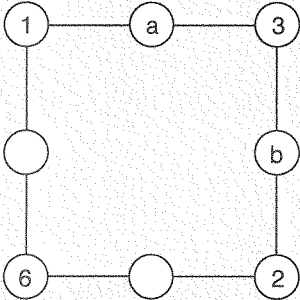
3. $d = 4$ ise $h = ?$

- A) 1 B) 3 C) 5 D) 6 E) 7

4. e kaçtır?

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

2.



Verilen yerleştirmede her bir kenar üzerinde bulunan rakamların toplamı eşittir.

Buna göre, $a + b$ kaçtır?

- A) 15 B) 13 C) 11 D) 10 E) 8

TEST - 2

5. ve 6. soruları aşağıdaki tabloya göre cevaplayınız.

1			K
3			
5	L		
7			10

1'den 16'ya kadar olan sayılar verilen kurallara göre tablonun hücrelerine yerleştirilecektir.

- Sayılar her satırda artan sırada olacaktır.
- Satırlardaki sayıların toplamı eşit olacaktır.

5. K + L toplamı kaçtır?

- A) 26 B) 25 C) 24 D) 23 E) 22

6. Üçüncü sütundaki sayıların toplamı kaçtır?

- A) 46 B) 48 C) 42 D) 44 E) 40

7. ve 8. soruları aşağıdaki tabloya göre cevaplayınız.

			→ d
			→ e
			→ f
↓	↓	↓	
a	b	c	

a, b, c, d, e, f bulunduğu satır veya sütundaki sayıların toplamı olacak şekilde karenin hücreleri 1'den 9'a kadar olan rakamlarla doldurulacaktır.

7.

2	?		→ 16
		5	→ 21
	3		→ 8
↓	↓	↓	
15	18	12	

? yerine hangi rakam gelmelidir?

- A) 4 B) 6 C) 7 D) 8 E) 9

8.

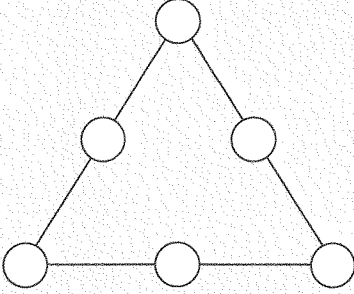
4	?		→ 13
		1	→ 12
8			→ 20
↓	↓	↓	
18	16	11	

? yerine hangi rakam gelmelidir?

- A) 2 B) 3 C) 5 D) 6 E) 7

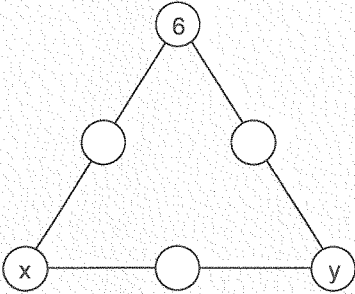
TEST - 2

9. ve 10. soruları aşağıdaki tabloya göre cevaplayınız.



Üçgenin her bir kenarı üzerinde bulunan rakamların çarpımı eşit olacak şekilde 1, 2, 3, 4, 6, 8 rakamlarının her biri çemberlerden birine yerleştiriliyor.

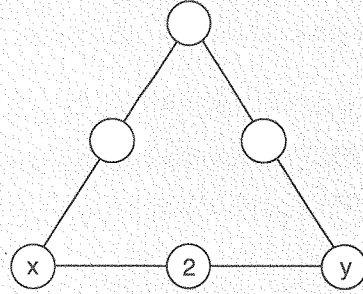
9.



O halde x.y kaç olur?

- A) 2 B) 6 C) 8 D) 12 E) 16

10.

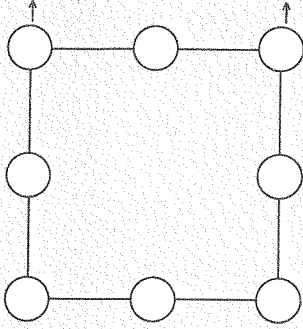


Buna göre $x + y$ kaçtır?

- A) 5 B) 7 C) 9 D) 10 E) 12

TEST - 2 ÇÖZÜMLER

1. Toplam 13



$$\Rightarrow 4 \cdot 13 = 52$$

Kenarlardaki
sayılar ikişer
kez toplandı.

Toplam 13

Toplam 13

Kenarlardaki sayıların toplamı = 52 – Yerleştirilecek
sayıların toplamı

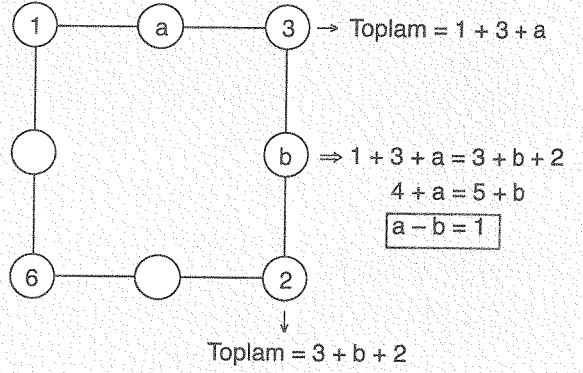
$$= 52 - (1 + 2 + 3 + \dots + 8)$$

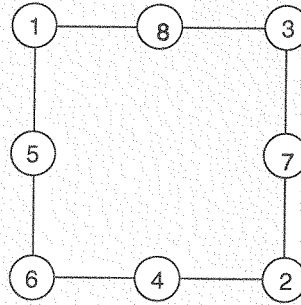
$$= 52 - \frac{8 \cdot 9}{2}$$

$$= 52 - 36 = 16$$

Cevap: C

2.


 $\cancel{1}, \cancel{2}, \cancel{3}, 4, 5, \cancel{6}, 7, 8, 9$
 $a - b = 1$ olduğundan;

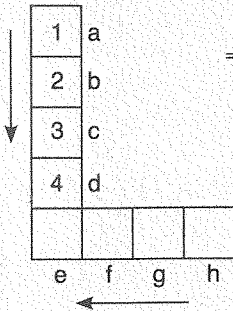
 $a = 5$ ve $b = 4$ veya $a = 8$ ve $b = 7$ olabilir.


$$\Rightarrow a + b = 8 + 7 = 15$$

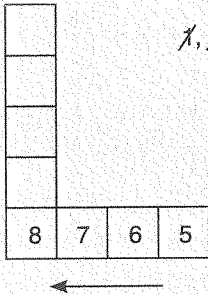
Cevap: A

TEST - 2 ÇÖZÜMLER

3.



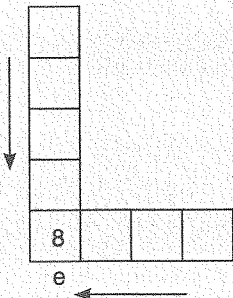
⇒ Ok yönünde artacağından
 $a = 1$ olmalı
 $b = 2$
 $c = 3$

 $\cancel{1}, \cancel{2}, \cancel{3}, \cancel{4}, 5, 6, 7, 8$

Kalan rakamlar ok yönünde artacak şekilde yerleştirilirse; $h = 5$ olur.

Cevap: C

4.



e, sütundaki ve satırdaki en büyük sayı olacağından 8 olmalı

Cevap: E

5.

1	2	15	16
3	4	13	14
5	6	11	12
7	8	9	10

→ Toplam $x \Rightarrow 34 - 1 = 33$ ($2 + 15 + 16$)

→ Toplam x $\Rightarrow 34 - 3 = 31$ (4 + 13 + 14)

→ Toplam x $\Rightarrow 34 - 5 = 29$ (6 + 11 + 19)

→ Toplam x $\Rightarrow 34 - 10 - 7 = 17$ (8 + 9)

$$4x = 1 + 2 + \dots + 16$$
$$4x = 136$$
$$x = 34$$
$$\Rightarrow K + L = 16 + 6 = 22$$

Cevap: E

TASARI AKADEMİ YAYINLARI

6.

		15	
		13	
		11	
		9	

$$15 + 13 + 11 + 9 = 48$$

Cevap: B

TEST - 2 ÇÖZÜMLER

7.

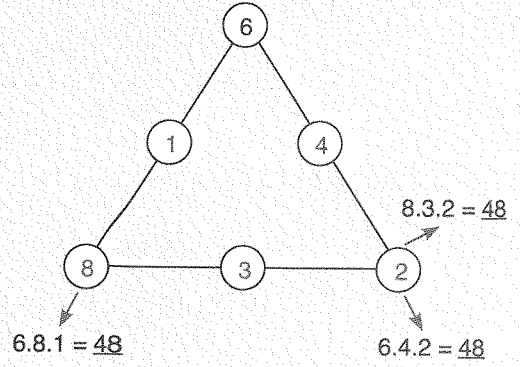
2	8	6
9	7	5
4	3	1

$\rightarrow 16 \rightarrow 16 - 2 = 14 (8 + 6)$
 $\rightarrow 21 \rightarrow 21 - 5 = 16 (9 + 7)$
 $\rightarrow 8 \rightarrow 8 - 3 = 5 (1 + 4)$

$\downarrow \quad \downarrow \quad \downarrow$
 15 18 12

Cevap: D

9.



$$\Rightarrow x.y = 8.2 = 16$$

Cevap: E

8.

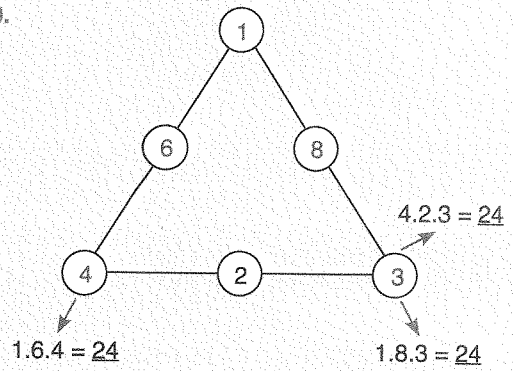
4	2	7
6	5	1
8	9	3

$\rightarrow 13 \rightarrow 13 - 4 = 9 (2 + 7)$
 $\rightarrow 12 \rightarrow 12 - 1 = 11 (6 + 5)$
 $\rightarrow 20 \rightarrow 20 - 8 = 12 (9 + 3)$

$\downarrow \quad \downarrow \quad \downarrow$
 18 16 11

Cevap: A

10.



Cevap: B

