

ÇÖZÜMLER

1. Soldan birinci harf bütün kelimelerde incelendiğinde 3 tane A o halde $A = 1$ olur.

Baştan 1 sondan 2 tane K olan $K = 4$

Buradan $Z = 8, F = 7, T = 3, R = 5$

ARTK → 1 5 3 4

ZATF → 8 1 3 7

ZRKF → 8 5 4 7

ARFT → 1 5 7 3

ATKK → 1 3 4 4

ZRKF → 8 5 4 7

Cevap: E

2. Soldan birinci şekil \emptyset üç tane rakamlar olan soldan birinci üç tane $\emptyset = 8$

Soldan ikinci şekil aynı olan β iki tane rakamlardan karşılığı $\beta = 9$, buradan $\gamma = 6$

$\epsilon = 5, \oplus = 1, \alpha = 7$ olur.

$\epsilon \beta \alpha \gamma \rightarrow 5 9 7 6$

$\gamma \beta \epsilon \alpha \rightarrow 6 9 5 7$

$\emptyset \alpha \epsilon \alpha \rightarrow 8 7 5 7$

$\emptyset \gamma \oplus \gamma \rightarrow 8 6 1 6$

$\emptyset \epsilon \oplus \beta \rightarrow 8 5 1 9$

$\emptyset \alpha \epsilon \alpha = 8757$

Cevap: B

3. I. $x \diamond y = \begin{cases} \text{mod } 7 & y \equiv 2 & 4x + 5 \\ \text{mod } 7 & x \equiv 0 & x.y + 3 \end{cases}$

II. $(4 \diamond 2) \diamond 3 = ?$

$(4 \diamond 2) = 4x + 5 = 16 + 5 = 21$

$21 \diamond 3 = x.y + 3 = 21.3 + 3 = 66$

Cevap: D

4. I. $1 + \frac{1}{3 + \frac{1}{a \blacksquare b}} = 2ab$

II. $2 \blacksquare 4 = ?$

$2 \blacksquare 4 = x$ olsun. $a = 2$ ve $b = 4$

$$1 + \frac{1}{3 + \frac{1}{x}} = 2.2.4$$

$$1 + \frac{x}{3x + 1} = 16$$

$$\frac{x}{3x + 1} = 15$$

$$45x + 15 = x$$

$$44x = -15$$

$$2 \blacksquare 4 = x = \frac{-15}{44} \text{ bulunur.}$$

Cevap: B

5. I. $7 \bullet 9 = 8$

II. $8 \bullet 4 = 6$

III. $9 \bullet 5 = 7$

IV. $7 \bullet 3 = ?$

Toplamlarının yarısı

$$7 \bullet 9 = \frac{7+9}{2} = 8$$

$$8 \bullet 4 = \frac{8+4}{2} = 6$$

$$9 \bullet 5 = \frac{9+5}{2} = 7$$

$$7 \bullet 3 = \frac{7+3}{2} = 5 \text{ bulunur.}$$

Cevap: D

6. (Siyah dairelerin içini çarp) – (Beyaz Daire içlerini topla)

$$(4.7) - (2 + 3) = 28 - 5 = 23$$

$$(5.8) - (3 + 6) = 40 - 9 = 31$$

$$(9.6) - (8 + 4) = 54 - 12 = 42$$

$$(7.5) - (9 + 1) = 35 - 10 = 25$$

$$x = (6.7) - (4 + 8) = 42 - 12 = 30$$

Cevap: E

7. $\boxed{\dots} \rightarrow I$

$$\begin{array}{r} \times 32 \\ \hline \dots \\ + 636 \\ \hline \end{array}$$

işleminde $I = 636 \div 3 = 212$ olur.

$$\begin{array}{r} 212 \\ \times 32 \\ \hline 424 \\ + 636 \\ \hline 6784 \end{array}$$

bulunur.

Cevap: E

8. $\begin{array}{r} x y z \\ + x z y \\ \hline 965 \end{array}$

işleminde $x = 4$ olur.

$y + z = 15$ olur.

$\min(z - x)$ olması için $z = 6$ alınabilir.

$$z - x = 6 - 4 = 2$$

Cevap: B

9.

+	a	b	c	d	e
a					
b	2e			a+1	
c	2b		b		
d					a+c
e					

$$b = 4$$

$$\frac{a \cdot c}{b + d + e} = ?$$

tablodan $b + a = 2e$, $b + d = a + 1$

$c + a = 2b$, $c + c = b$, $d + e = a + c$

$b = 4$ olduğundan

- $2c = b \Rightarrow 2c = 4 \Rightarrow c = 2$
- $c + a = 2b \Rightarrow 2 + a = 8 \Rightarrow a = 6$
- $b + d = a + 1 \Rightarrow 4 + d = 6 + 1 \Rightarrow d = 3$
- $d + e = a + c \Rightarrow 3 + e = 6 + 2 \Rightarrow e = 5$

o halde $\frac{a \cdot c}{b + d + e} = \frac{6 \cdot 2}{4 + 3 + 5} = \frac{12}{12} = 1$ bulunur.

Cevap: E

10.

x	a	b	c
a		48	96
b			72

$$a + b + c = ?$$

$$a \cdot b = 48 \Rightarrow \frac{b}{c} = \frac{48}{96} = \frac{1}{2}$$

$$a \cdot c = 96 \Rightarrow \frac{a}{b} = \frac{96}{72} = \frac{4}{3}$$

$$b \cdot c = 72 \Rightarrow \frac{b}{c} = \frac{3k}{6k} \text{ ve } \frac{a}{b} = \frac{4k}{3k}$$

$k = 2$ için $a = 8$, $b = 6$, $c = 12$

$a + b + c = 8 + 6 + 12 = 26$ bulunur.

Cevap: A

11.

x	a	b	
a	c+29		
b		c-15	

+	a	b	c
a		11	
b			

$$a - b = ?$$

I. tablodan

$$a \cdot a = c + 29,$$

$$a^2 = c + 29$$

$$b \cdot b = c - 15$$

$$b^2 = c - 15$$

II. tablodan

$$(a + b) = (11)$$

$$a^2 - b^2 = c + 29 - c + 15$$

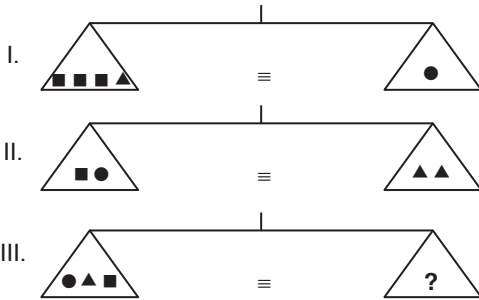
$$(a - b)(a + b) = 44$$

$$11$$

$$a - b = 4 \text{ bulunur.}$$

Cevap: D

12.



$$\blacksquare = x, \quad \blacktriangle = y, \quad \bullet = z$$

$$\text{I. } 3x + y = z$$

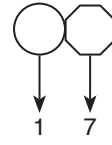
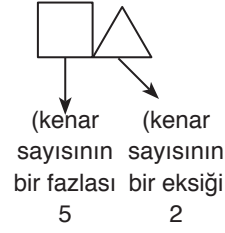
$$\text{II. } x + z = 2y$$

$$\text{III. } x + y + z = ?$$

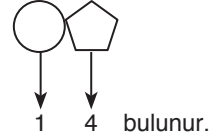
$$3y = \blacktriangle\blacktriangle\blacktriangle \text{ olabilir.}$$

Cevap: D

13.



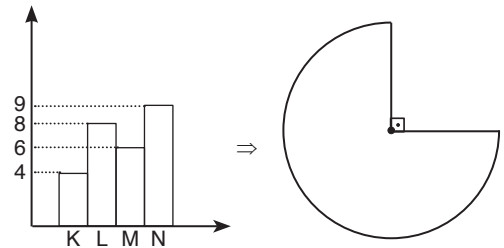
O halde



CEVAP: A

TASARI EĞİTİM YAYINLARI

14.



$$K^\circ = ? \quad L^\circ = ? \quad M^\circ = ? \quad N^\circ = ?$$

Şeklindeki 90° 'yi almadığımızda şeklimiz $360 - 90 = 270^\circ$

$$K = 4a, \quad L = 8a, \quad M = 6a \quad \text{ve} \quad N = 9a$$

$$4a + 8a + 6a + 9a = 270^\circ$$

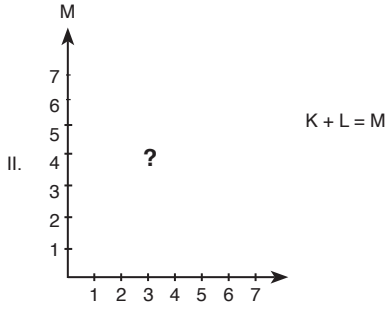
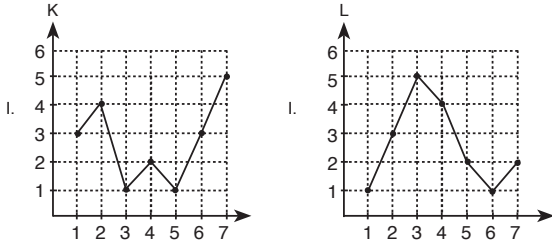
$$27a = 270^\circ$$

$$a = 10^\circ$$

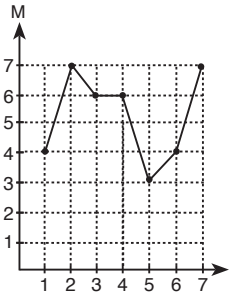
$$K = 40^\circ, \quad L = 80^\circ, \quad M = 60^\circ \quad \text{ve} \quad N = 90^\circ \text{ olur.}$$

Cevap: E

15.

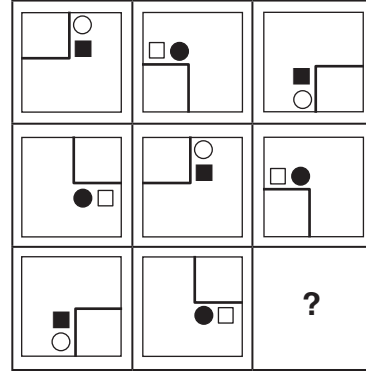


	K	+	L	=	M
1.	3		1	=	4
2.	4		3	=	7
3.	1		5	=	6
4.	2		4	=	6
5.	1		2	=	3
6.	3		1	=	4
7.	5		2	=	7

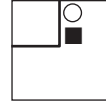


Cevap: E

16.



Şekil incelendiğinde içerdeki kare saatin ters yönünde köşelere ilerliyor. Daire ve karede her köşede renk değişiyor.



Cevap: C

TASARI EĞİTİM YAYINLARI

17. ABCD karesi 4 birim kareden oluşur.

Alan(ABCD) = 20 ise

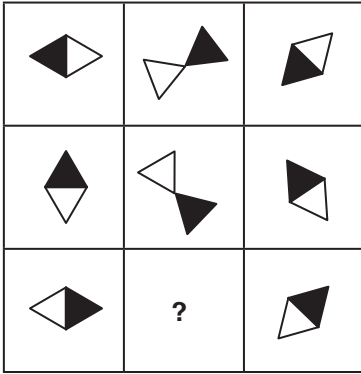
4.(birim kare) = 20

Bir tane birim karenin alanı 5 br^2 bulunur.

Taratlı kareler sayılırsa 105 bulunur.

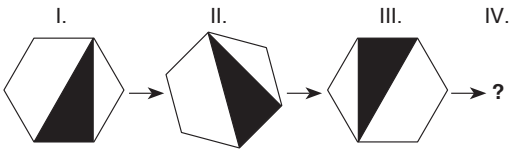
Cevap: B

18.



Cevap: A

19.



I. adımdan II. adıma bir kenar

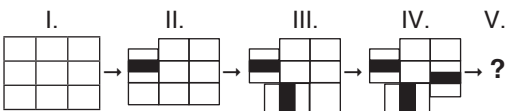
II. adımdan III adıma iki kenar

III. adımdan IV adıma üç kenar



Cevap: B

20.



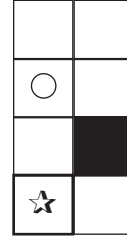
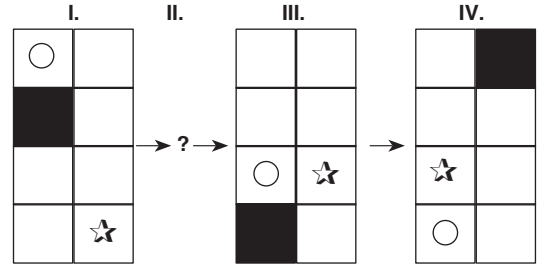
Her şekilde siyahlık iki kenar ilerlemekte ve siyahlaştırmakta

O halde seçeneğimiz A olur.



Cevap: A

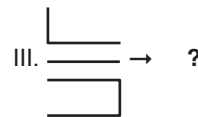
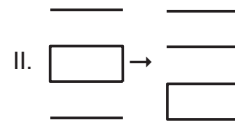
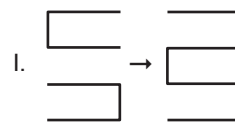
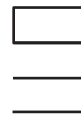
21.



Cevap: B

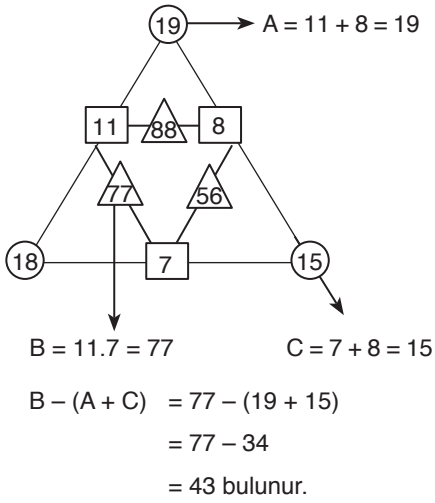
TASARI EĞİTİM YAYINLARI

22.

Yukarıdaki kenar çizgi bir adım aşağıya
aşağıdaki kenar çizgi bir adım yukarı hareket etmekte.

Cevap: B

23.



CEVAP: B

25.

2:27	3:09	3:51	4:33	X
------	------	------	------	---

I. saat 2:27

II. saat 3:09

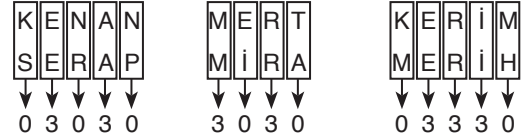
Fark $3:09 - 2:27 = 42$ dk eklenmekte

O halde x

$$4:33 + 0:42 = 5:15 \text{ bulunur.}$$

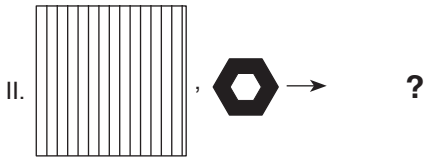
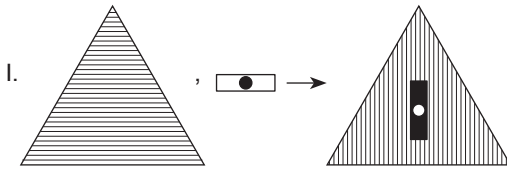
Cevap: D

26.

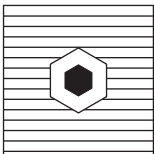


Cevap: B

24.

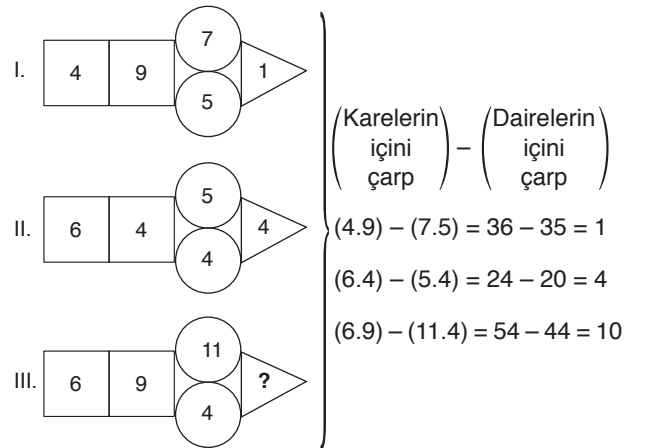


Sağdaki soldaki şeklin içine dik şekilde yerleştirilmekte beyazlar siyah siyahlar beyaz olmakta Şeklimiz D seçeneği olur.



Cevap: D

27.



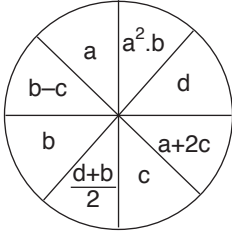
Cevap: C

28 - 29. soruları aşağıdaki şekle göre cevaplayınız.

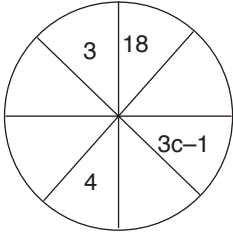
Answers questions 27 - 28 accordance with the figure given below.

Her soru birbirinden bağımsız olarak cevaplanacaktır.

Each question is to be answered independently.



28.



$$a = 3 \quad a^2.b = 18 \quad \frac{d+b}{2} = 4 \quad a + 2c = 3c - 1$$

$$9.b = 18 \quad \frac{d+2}{2} = 4 \quad 3 + 1 = c$$

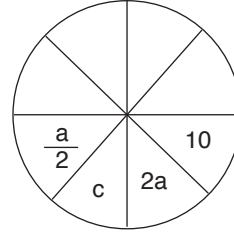
$$b = 2 \quad d + 2 = 8 \quad c = 4$$

$$d = 6$$

$$\frac{a.c}{d.b} = \frac{3.4}{6.2} = \frac{12}{12} = 1$$

Cevap: A

29.

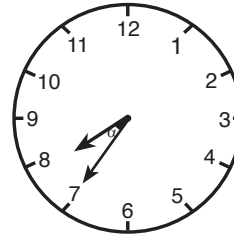


$$\begin{aligned} \frac{a}{2} = b & \quad \frac{d+b}{2} = c & \quad c = 2a & \quad a + 2a = 10 \\ \downarrow & \quad \downarrow & & \quad a + 4a = 10 \\ \frac{2}{2} = b \Rightarrow b = 1 & & \quad \underline{c = 4} & \quad 5a = 10 \\ & & & \quad \underline{a = 2} \\ & \quad \downarrow & & \\ & \quad \frac{d+1}{2} = 4 & & \\ & \quad d + 1 = 8 & & \\ & \quad d = 7 \text{ bulunur.} & & \end{aligned}$$

Cevap: E

TASARI EĞİTİM YAYINLARI

30.



$$\alpha = \left| \frac{11. \text{ dakika} - 60. \text{ saat}}{2} \right|$$

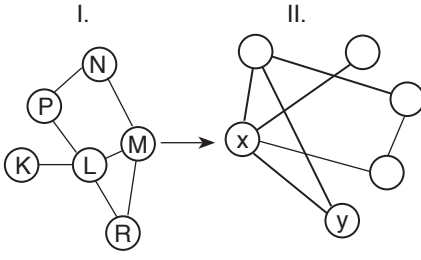
$$\alpha = \left| \frac{11.34 - 60.7}{2} \right|$$

$$\alpha = \left| \frac{374 - 420}{2} \right|$$

$$\alpha = 23^\circ$$

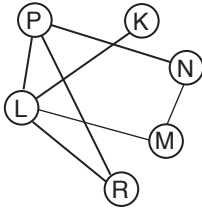
Cevap: A

31.



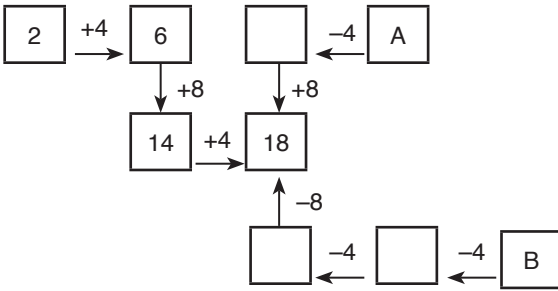
x = ? y = ?

İkinci şekil

x → L
y → R

Cevap: A

32.

+4
→
-4
←

↓ +8 ↑ -8 şeklinde

A = 14 ve B = 34

A + B = 14 + 34

= 48 bulunur.

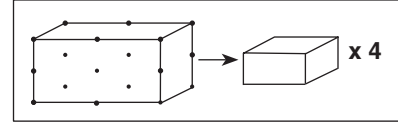
Cevap: B

33. soruyu örnekte verilen ilişkiye göre cevaplayınız.

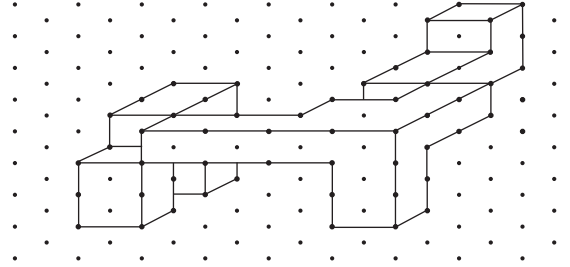
In question 39, find the correct answer in accordance with the relationship established in the example below

ÖRNEK

EXAMPLE



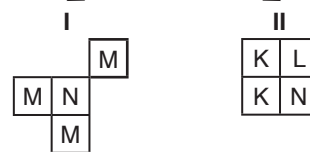
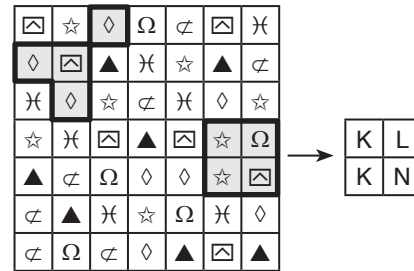
33.



Şekildeki noktaları birleştirdiğimizde şeklimizde 19 küp oluşmakta

Cevap: C

34.



M = ◇

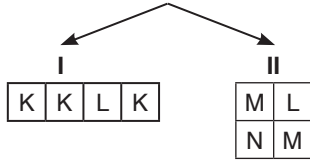
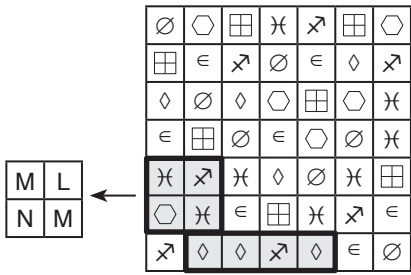
K = ☆

N = ☒

L = Ω

Cevap: A

35.



K = \diamond

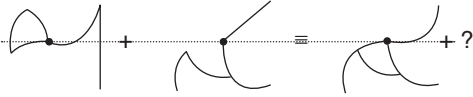
M = X

L = X

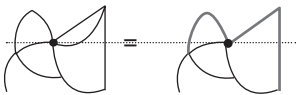
N = \circ

Cevap: E

36.

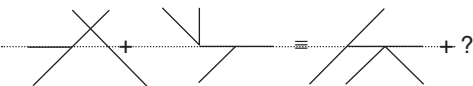


Sol taraf



Cevap: D

37.

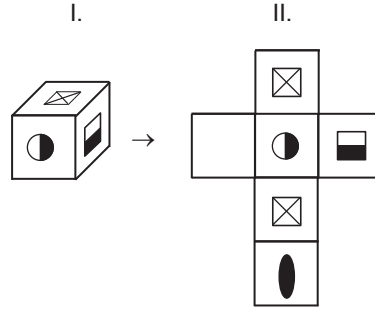


Şekiller birleştirildiğinde sağdaki şekilde A seçeneği eksik.



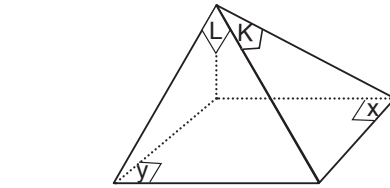
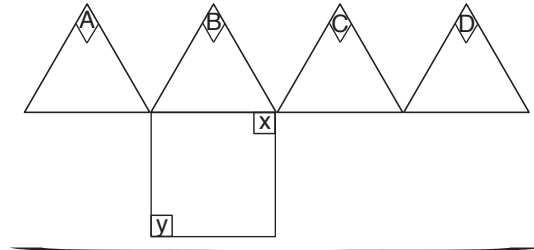
Cevap: A

38.



Cevap: A

39.



K = C

L = D

Cevap: D

40. 1. adım $\rightarrow 3^1 = 3$
 2. adım $\rightarrow 3^2 = 9$
 3. adım $\rightarrow 3^3 = 27$
 4. adım $\rightarrow 3^4 = 81$
 5. adım $\rightarrow 3^5 = 243$ tane taralı üçgen

Cevap: E