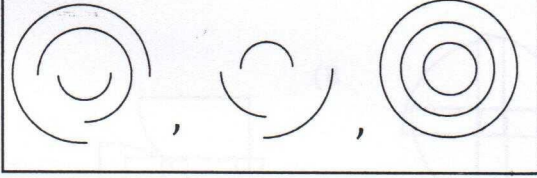
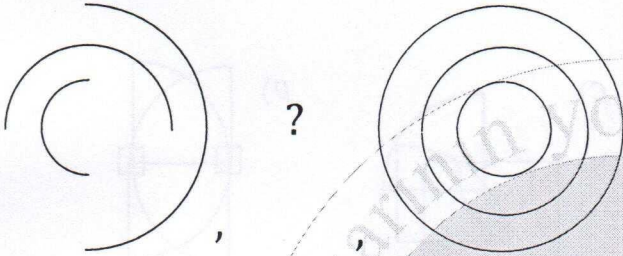


1 sorularını aşağıdaki örneğe göre çözünüz

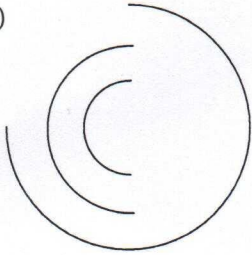
örnek:



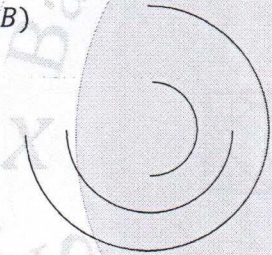
1.



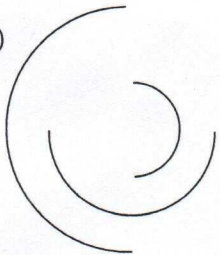
A)



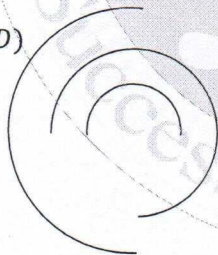
B)



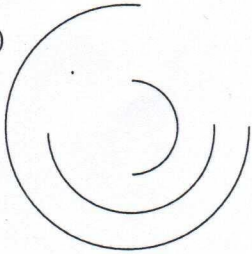
C)



D)

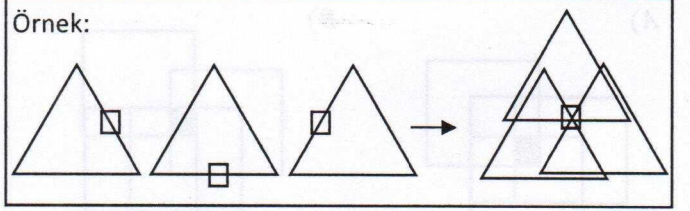


E)

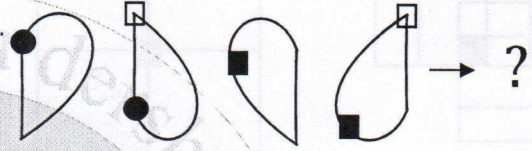


2 – 4 sorularını aşağıdaki örneğe göre çözünüz

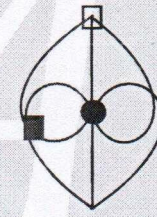
Örnek:



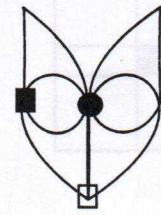
2.



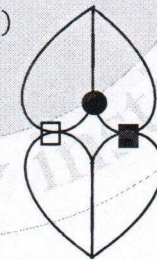
A)



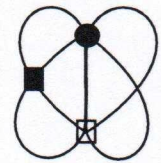
B)



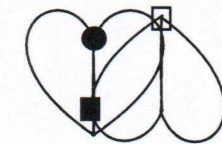
C)



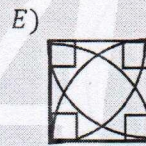
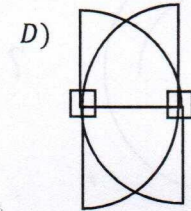
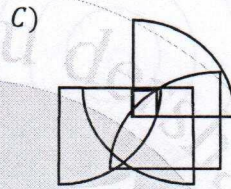
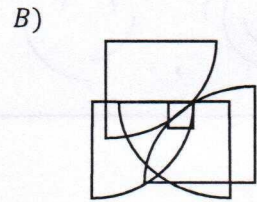
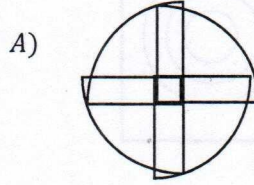
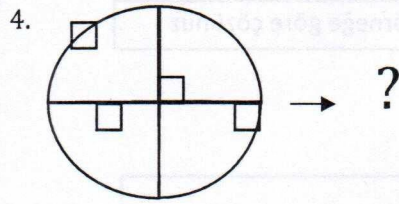
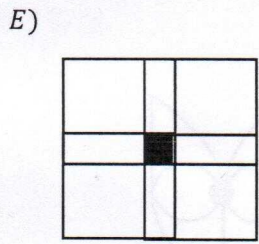
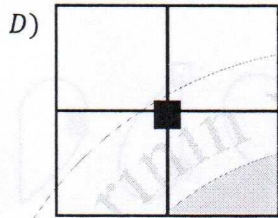
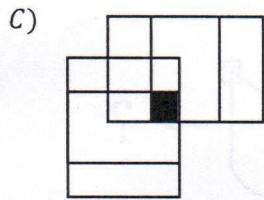
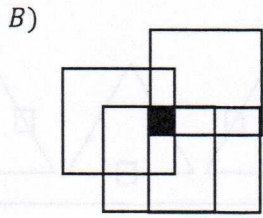
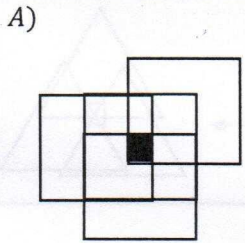
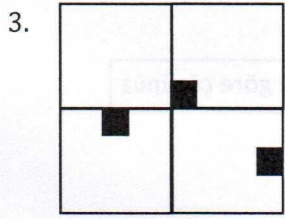
D)



E)

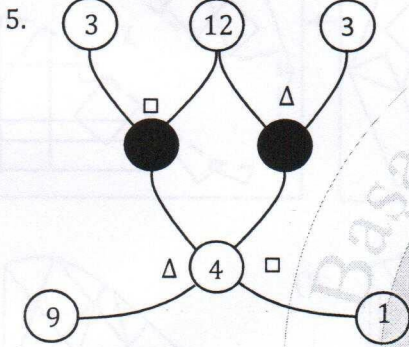
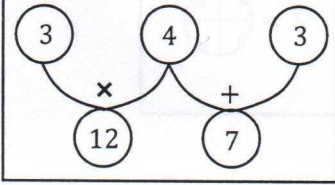


A



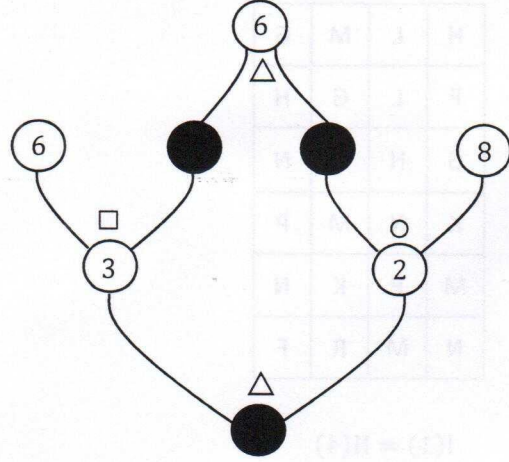
5 – 7 sorularını aşağıdaki örneğe göre çözünüz

örnek:



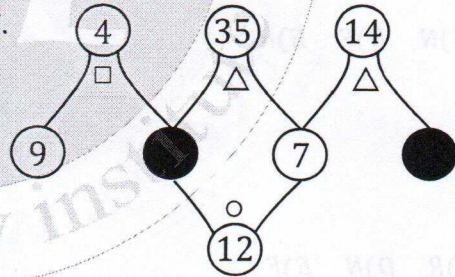
- Δ □
A) + ÷
B) ÷ ×
C) ÷ +
D) × ÷
E) +

6.



- Δ □ ○
A) + ÷ ÷
B) ÷ × ×
C) ÷ + +
D) × ÷ ÷
E) + ÷ ÷

7.



- Δ ○
A) - × +
B) + × -
C) - + ×
D) - × ÷
E) - + +

8 – 11 sorularını aşağıdaki tabloya göre çözünüz

I
II
III
IV
V
VI

H	L	M	G
F	L	G	H
G	H	R	N
K	N	M	P
M	P	K	N
N	M	R	F

$$I(1) = II(4)$$

$$I(2) = II(2)$$

$$III(1) = VI(2)$$

$$IV(4) = VI(1)$$

8. III(2) = ?

A)H B)L C)M D)G E)P

9. IV(2) = ?

A)H B)M C)N D)F E)R

10. V(2) = ?

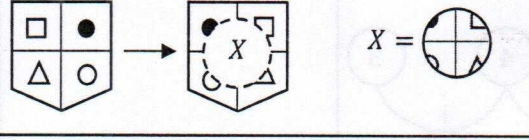
A)H B)P C)R D)N E)F

11. VI(4) = ?

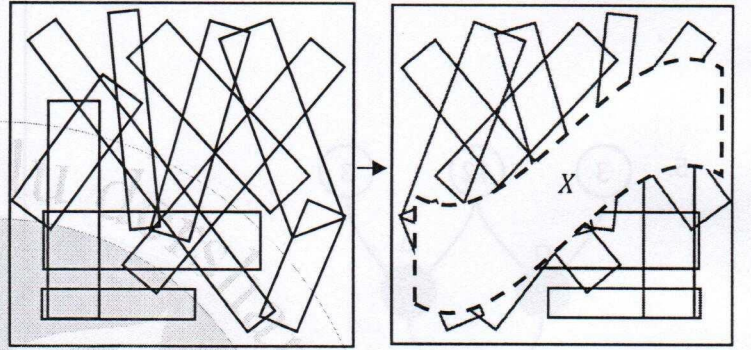
A)F B)R C)H D)N E)M

12 – 13 sorularını aşağıdaki verilen örneğe göre çözünüz

örnek:



12.



X = ?

A)

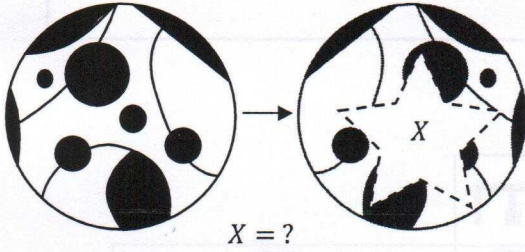
B)

C)

D)

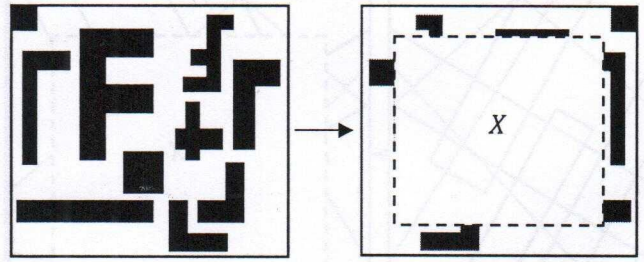
E)

13.



- A)
- B)
- C)
- D)
- E)

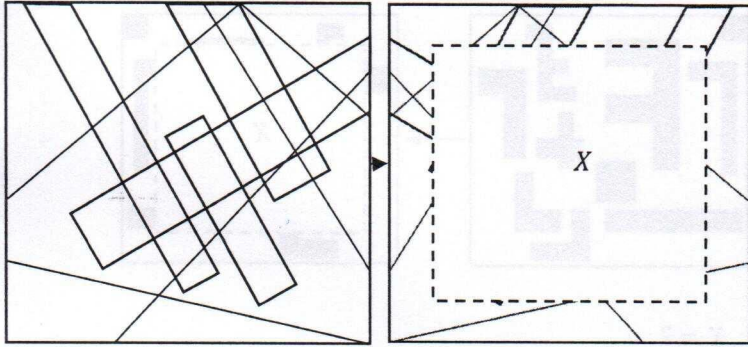
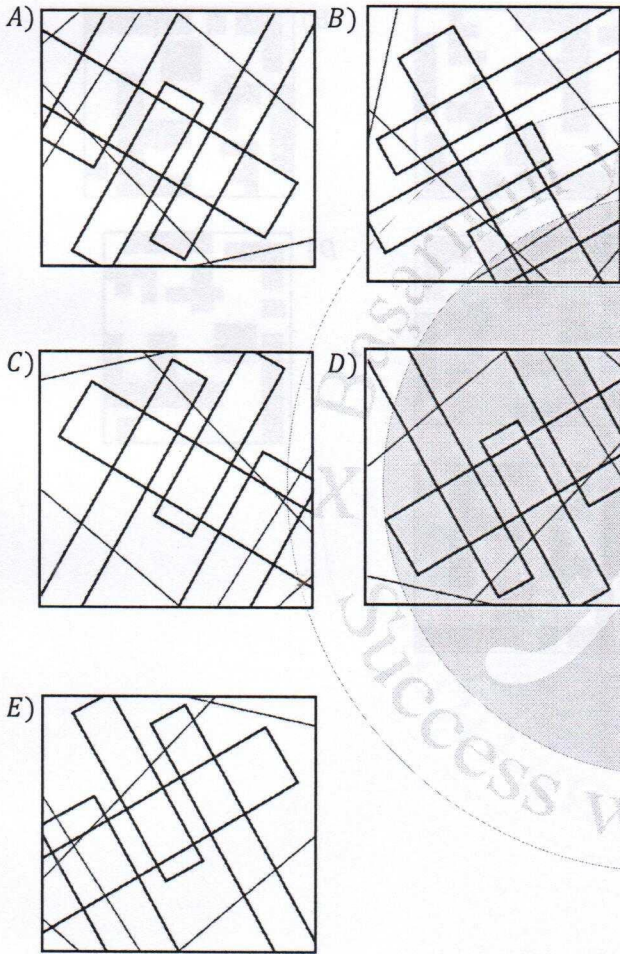
14.



X = ?

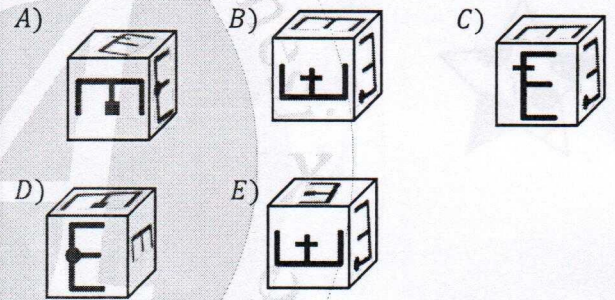
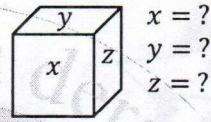
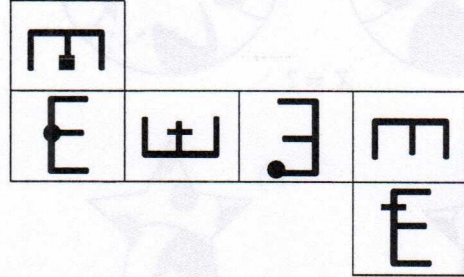
- A)
- B)
- C)
- D)
- E)

15.

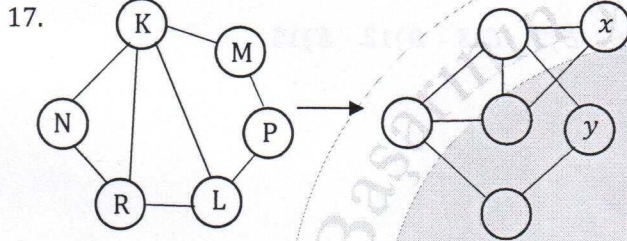
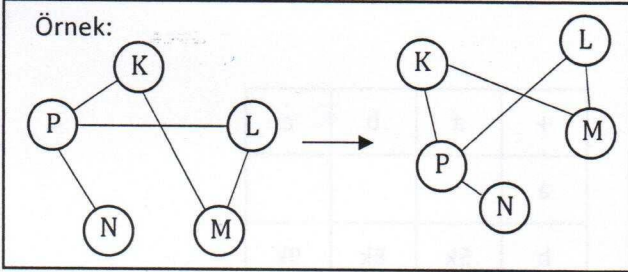
 $X = ?$ 

16 sorularında açık hali verilen küpün kapalı halini bulunuz

16.

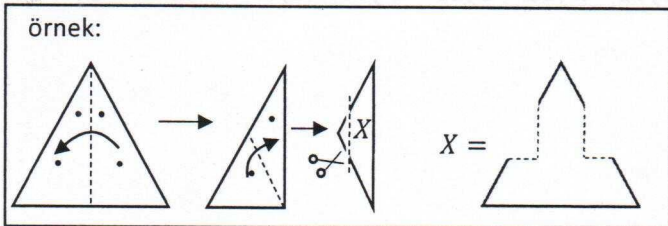


17 sorularını aşağıdaki verilen örneğe göre çözünüz

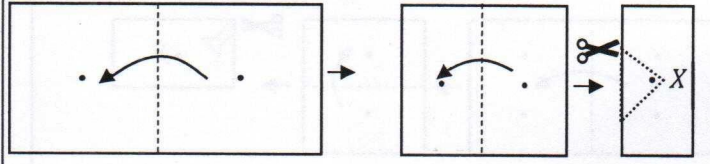


- | | x | y |
|----|-----|-----|
| A) | N | P |
| B) | M | K |
| C) | P | M |
| D) | N | M |
| E) | M | P |

18 – 20 sorularını aşağıdaki verilen örneğe göre çözünüz



18.

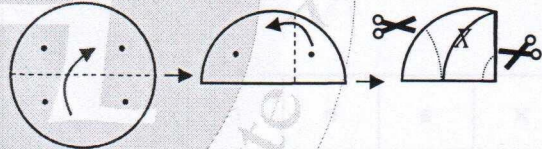


$X = ?$

- A) B) C) D)



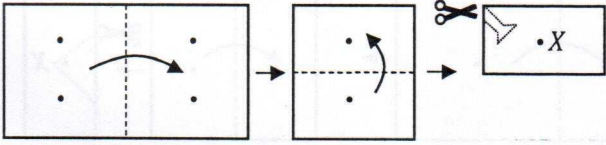
19.



$X = ?$

- A) B) C) D) E)

20.



$X = ?$

- A) B) C) D) E)

21.

x	a	b	c
a			9b
b	c		
c		4a	

$\Rightarrow b =$

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

22.

+	a	b	c
a			
b	5k	8k	9k
c	24		

$\Rightarrow b - a = ?$

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

23.

+	a	b	c
a			15
b			a+7
c	3a		

$\Rightarrow a + b + c = ?$

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

25 – 27 sorularını aşağıdaki verilen örneğe göre çözüünüz

24.

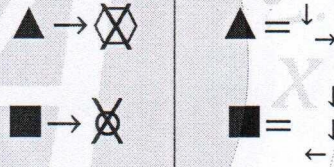
x	a	b	c
a			18
b			27
c	6b		

$$\Rightarrow a + b + c = ?$$

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

Örnek:

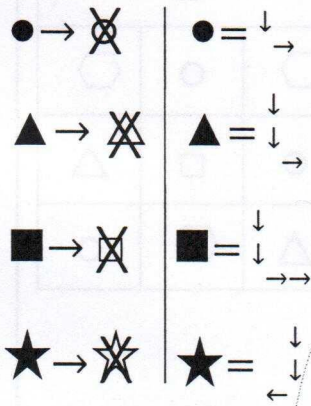
	a	b	c	d	e
		▲		■	
I	△	○	⬡	○	⬡
II	□	⬡	○	□	△
III	○	□	△	⬡	○






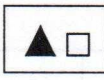

	a	b	c	d	e
			▲	○	⬡
I	△	○	▲	○	⬡
II	□	⬡	■	□▲	△
III	○	□	△	⬡	○▲

A

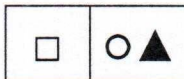
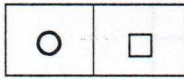
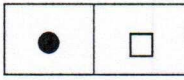
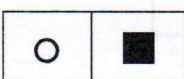

	a	b	c	d	e	f
	■	●	▲	★		
I	□	○	△	□	○	□
II	△	□	☆	○	☆	△
III	☆	△	○	△	□	○
IV	□	○	△	☆	□	△
V	☆	△	□	○	△	□



25. III b = ?

- A)  B) 
- D)  E) 
- C) 

26. II d, IV e = ?

- A) 
- B) 
- C) 
- D) 
- E) 

27.

Ic IVf IIe IVe

?	?	?	?
---	---	---	---

A)

△●	▲	☆	■
----	---	---	---

B)

▲	△■	★	□
---	----	---	---

C)

△●	▲●	★●	■
----	----	----	---

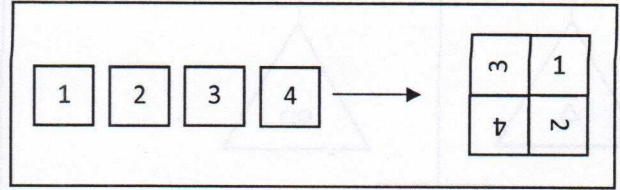
D)

△●	▲	☆	☆■
----	---	---	----

E)

△	△	☆	□
---	---	---	---

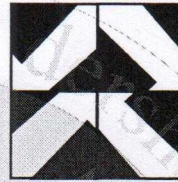
28 sorularını aşağıdaki kurala göre çözünüz



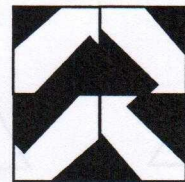
28.



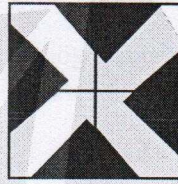
A)



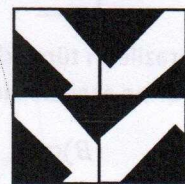
B)



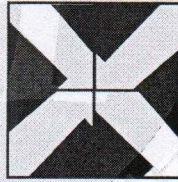
C)



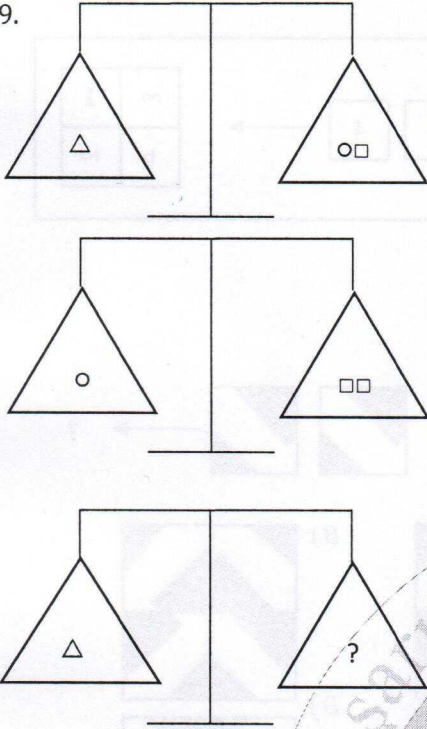
D)



E)



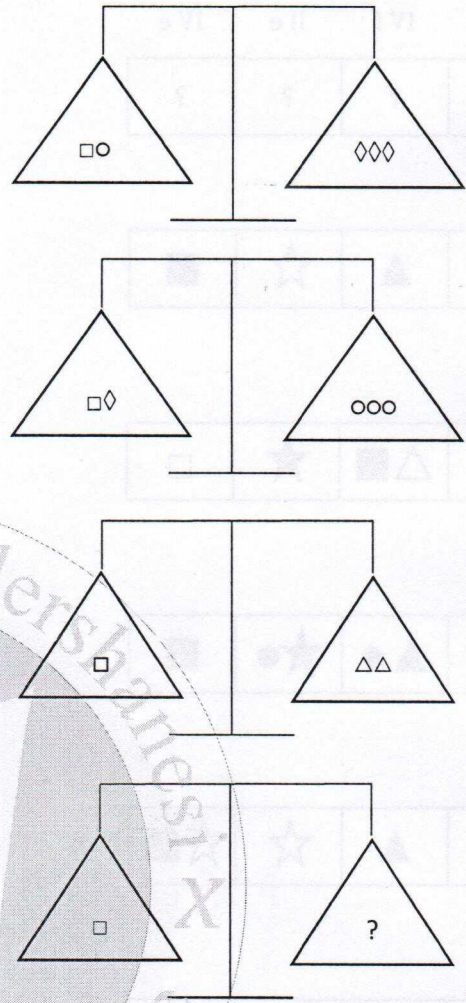
29.



Yukarıdaki terazilerin tümü dengede olduğuna göre soru işareti yerine aşağıdakilerden hangisi gelmelidir?

A) \square B) $\circ\circ$ C) $\square\square$ D) $\triangle\triangle$ E) $\triangle\circ$

30.

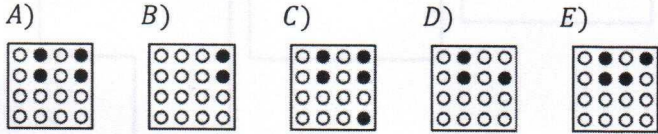
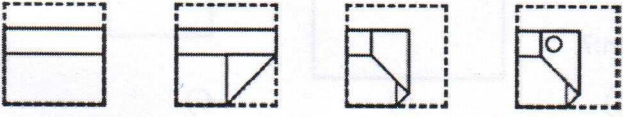


Yukarıdaki terazilerin tümü dengede olduğuna göre soru işareti yerine aşağıdakilerden hangisi gelmelidir?

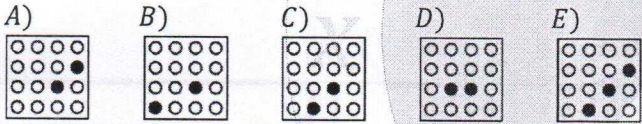
A) $\diamond\diamond\circ$ B) $\diamond\circ\triangle$ C) $\circ\triangle$ D) $\diamond\triangle\circ$ E) \triangle

31. – 35. Sorularında katlanan şeklin açılımında, kesilen parçanın yer alacağı konumu belirtmelisiniz.

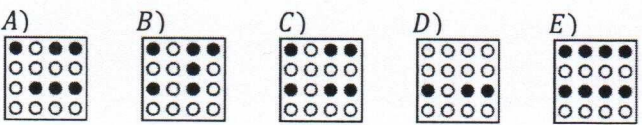
31.



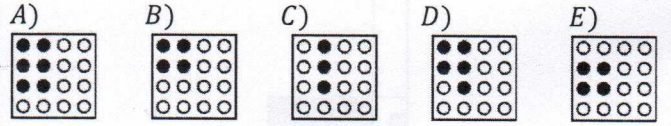
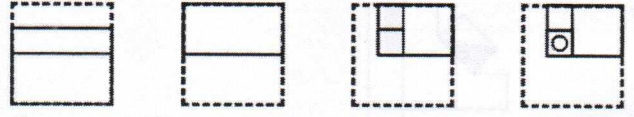
32.



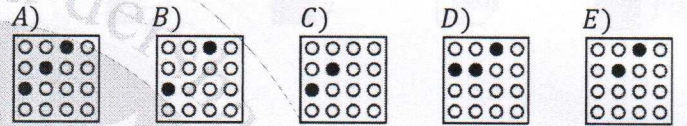
33.



34.

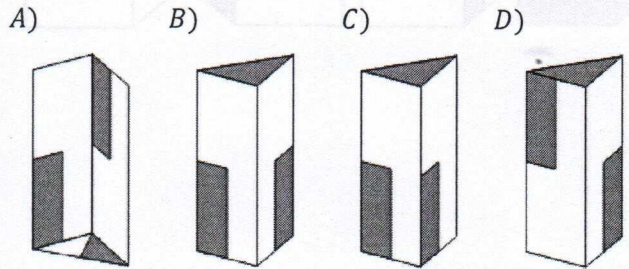
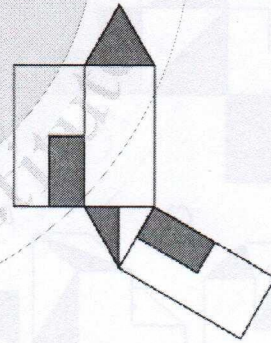


35.

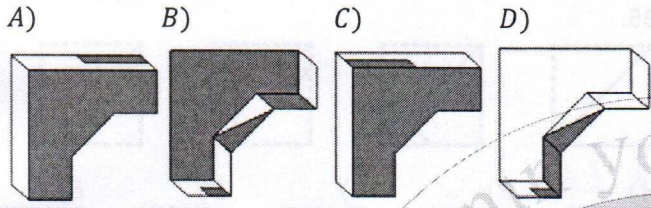
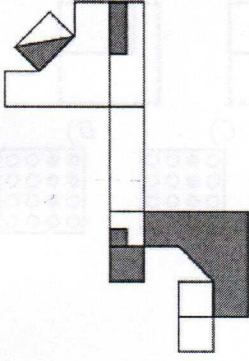


36. – 39. Sorularında gösterilen şekil hangi şıktaki şeklin açılımı olduğunu bulmalısınız.

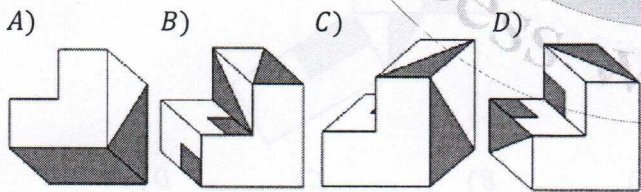
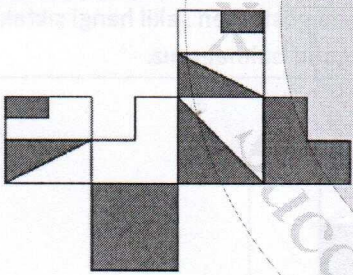
36.



37.

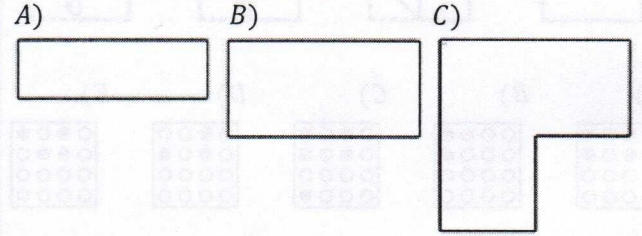


38.



39. – 40. Sorularında iki farklı yönden görüşü verilen şeklin istenen yönden görüşünü hayalinizi kullanarak tahmin etmeye çalışın.

39. yukarı: yan:
ön:?

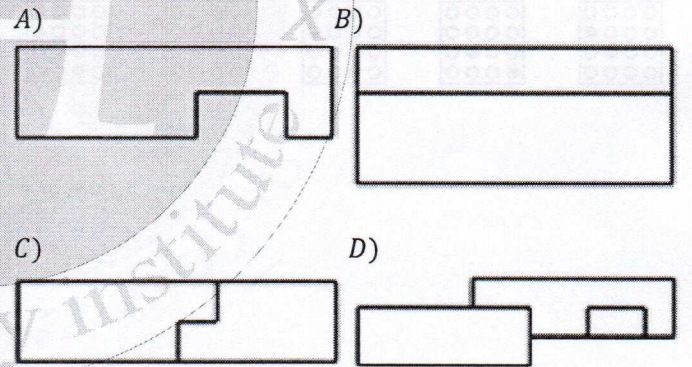


40.

Yukarı:

Yan:

Ön:?



$$41. -\frac{2}{3} - \frac{2}{7} + \frac{5}{3} = ?$$

$$A) \frac{5}{3} \quad B) \frac{4}{7} \quad C) \frac{5}{7} \quad D) \frac{2}{3} \quad E) \frac{16}{21}$$

$$42. \frac{6}{\sqrt{2}} - \frac{2}{\sqrt{2}-1} = ?$$

$$A) \sqrt{2} - 2 \quad B) \sqrt{2} + 2 \quad C) 3\sqrt{2} + 2$$

$$D) \sqrt{2} + 4 \quad E) 3\sqrt{2} - 2$$

$$43. \sqrt{5} \cong 2,2$$

$$\sqrt{11} \cong 3,3$$

$$\Rightarrow \sqrt{44} - \frac{3\sqrt{5}}{\sqrt{11}} = ?$$

$$A) 2 \quad B) 3 \quad C) 4 \quad D) 4,3 \quad E) 4,6$$

$$44. |-x + 1| + 3x \leq 11$$

$$x \in \mathbb{N}$$

$$\Rightarrow \text{Ç.K} = ?$$

$$A) 0 \leq x \leq 3 \quad B) 1 \leq x \leq 4 \quad C) 1 \leq x \leq 5$$

$$D) 3 \leq x \leq 4 \quad E) 3 \leq x \leq 5$$

$$45. \frac{x+1}{3} = \frac{y-1}{2} = \frac{z+1}{4}$$

$$x + y + z = 17$$

$$\Rightarrow \frac{z}{x+y} = ?$$

$$A) 0,3 \quad B) 0,4 \quad C) 0,6 \quad D) 0,7 \quad E) 0,8$$

$$46. \int 4 \cdot e^{2x-1} dx = ?$$

$$A) e^{2x+1} + c$$

$$B) 2e^{2x+1} + c$$

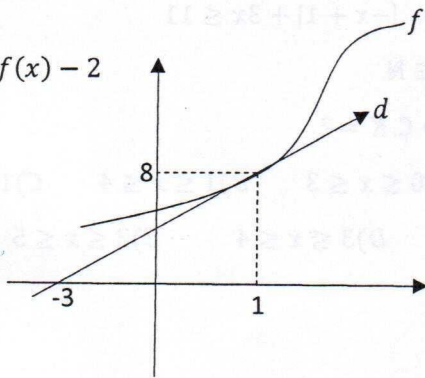
$$C) e^{2x-1} + c$$

$$D) 2e^{2x-1} + c$$

$$E) 4e^{2x-1} + c$$

47.

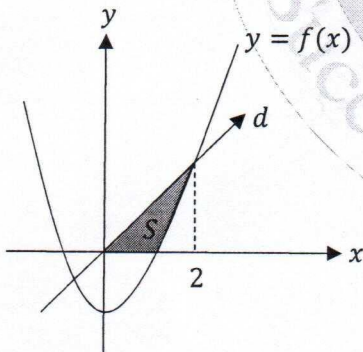
$$g(2x - 1) = x \cdot f(x) - 2$$



$$\Rightarrow g'(1) = ?$$

- A)10 B)8 C)7 D)5 E)4

$$48. f(x) = x^2 - 1$$



$$S = ?$$

- A) $\frac{11}{3}$ B) $\frac{7}{3}$ C) $\frac{5}{3}$ D) $\frac{4}{3}$ E) $\frac{10}{3}$

$$49. \int_1^{e^2} \frac{3 \ln^2 x}{x} dx = ?$$

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

$$50. f(x) = x^3 + ax^2 + bx + c$$

$$f(0) = 1, f'(0) = 2, f''(0) = -4$$

$$\Rightarrow f(-1) = ?$$

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

$$51. \left(\frac{1-i}{1+i} \right)^{20} = ?$$

- A)-i B)1 C)i D)-1 E)1-i

52. $\log_3 3^{2x-1} = x + 1$

$\Rightarrow x = ?$

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

53. $\log_2 a + \log_8 8a = \frac{11}{3}$

$\Rightarrow a = ?$

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

54. $3x + 2y = \frac{\pi}{2}$

$\Rightarrow \frac{\sin(4x + y)}{\cos(y - x)} = ?$

- A)0 B)1 C)
- $\frac{\pi}{2}$
- D)
- $\frac{\pi}{3}$
- E)
- $\frac{\pi}{4}$

55. $A = 7! + 3^{17}$

$A = x \pmod{10}$

$\Rightarrow x = ?$

- A)2 B)3 C)4 D)5 E)7

56. $P(x) = 3x^2 + kx + 1$

$P(x_1) = P(x_2) = 0$

$x_1 \neq x_2, x_1 + x_2 = 2x_1 \cdot x_2$

$\Rightarrow k = ?$

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

57. $P(x) = 3x^3 - x + 8$

$P(x-1) = x \cdot Q(x+1)$

$\Rightarrow Q(3) = ?$

- A)10 B)8 C)5 D)4 E)3

58. $x = 3 + \sqrt{y+1}$

$$\Rightarrow \frac{dy}{dx} = ?$$

- A) $x^2 - 6x + 2$ B) $2x + 6$ C) $2x + 4$
 D) $x - 6$ E) $2x - 6$

59. $(2a - 1)^3 \cdot 0,008 = 27$

$$\Rightarrow a = ?$$

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

60. $a, b, c \in \mathbb{Z}^+$

$$a - c = 9$$

$$b + 2c < 12$$

$$a_{\max} = ?$$

- A) 4 B) 7 C) 13 D) 14 E) 15

61. $m = 4^x, n = 6^x$

$$\frac{1 - 2^x - 4^x + 8^x}{1 - 2^x - 6^x + 12^x} = ?$$

- A) $\frac{m}{n}$ B) $\frac{1-n}{1-m}$ C) $\frac{m-1}{n-1}$ D) $\frac{m-1}{n}$ E) $\frac{m}{n-1}$

62. $A, B \subset U$

$$(A' \cup B)' \cap A' = ?$$

- A) A B) B C) U D) $A' \cap B$ E) \emptyset

63. $9^{a+1} \cdot 3^{-2a+b} = 81$

$$\Rightarrow b = ?$$

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

64. $x - 3y + 4z - t = 8$

$$x - 4y + 5z - t = 9$$

$$\Rightarrow x + z - t = ?$$

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

$$65. \frac{x^2 - x - 6}{2x^2 + 2x - 4} \cdot \frac{x^3 - x}{x^2 - 2x - 3} = \frac{5}{2}$$

$$\Rightarrow x = ?$$

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

$$66. f(x) = 3x + 1, g(x) = x^3 - 5$$

$$(g \circ f)^{-1}(3) = ?$$

- A) $\frac{1}{2}$ B) $\frac{1}{6}$ C) $\frac{1}{3}$ D) $\frac{1}{12}$ E) $\frac{1}{8}$

$$67. f(x) = x + \sin x \cdot \cos x$$

$$f' \left(\frac{\pi}{4} \right) = ?$$

- A)1 B)2 C)0 D) $1 + \sqrt{2}$ E) $1 + \frac{\sqrt{2}}{2}$

$$68. A(-1,4), B(2,1), C(0,3), D(k,0)$$

$$\overline{AB} \parallel \overline{CD}$$

$$\Rightarrow k = ?$$

- A)0 B)4 C)3 D)-3 E)-4

$$69. d_1: ax + by + c = 0$$

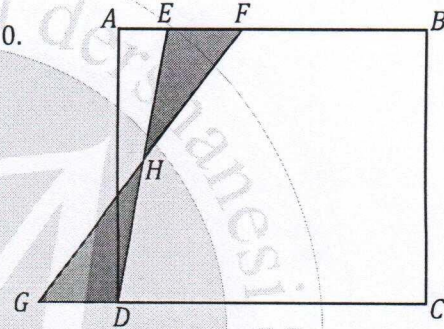
$$d_2: x - 2y + 4 = 0$$

$$a + b = -6, d_1 \perp d_2$$

$$\Rightarrow a = ?$$

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

70.



$$[AB] \perp [CD] \perp [DC] \perp [AD]$$

$$|AB| = |CD| = |DC| = |AD|$$

$$|AE| = |EF| = |FB|$$

$$|DC| = 3|GD|$$

$$A(GHD) + A(EFH) = 26 br^2$$

$$\Rightarrow A(ABCD) = ? br^2$$

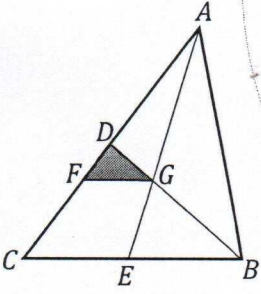
- A)52 B)156 C)178 D)104 E)154

71. $f(x) = \frac{x^2}{\sin x}$

$\Rightarrow f'(0^+) = ?$

- A) ∞ B) 3 C) 0 D) 1 E) 2

72.



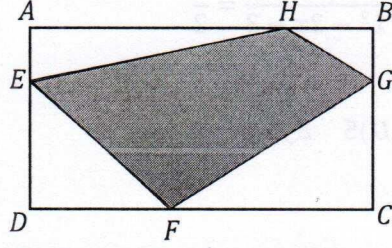
$|CD| = |AD|, |CE| = |EB|$

$FG \parallel CB, A(DGF) = 2br^2$

$\Rightarrow A(ABC) = ? br^2$

- A) 12 B) 18 C) 24 D) 32 E) 36

73.



$[AB] \perp [BC] \perp [CD] \perp [AD]$

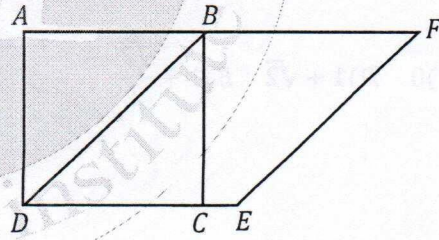
$|AB| = |CD|, |AE| = |BG|$

$A(EFGH) = 12 br^2$

$\Rightarrow A(ABCD) = ? br^2$

- A) 16 B) 24 C) 36 D) 48 E) 32

74.



$[AB] \perp [BC] \perp [CD] \perp [DA]$

$|AB| = |BC| = |CD| = |DA|$

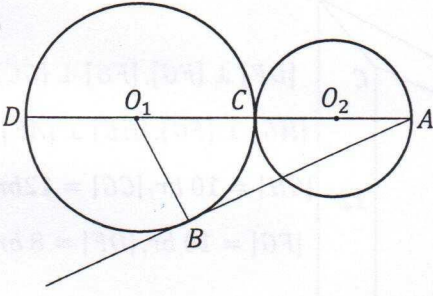
$|DB| = |BF| = |FE| = |ED|$

$A(ABCD) = 16 br^2$

$\Rightarrow A(BFED) = ?$

- A) $16\sqrt{2}$ B) 16 C) $12\sqrt{2}$ D) 12 E) $8\sqrt{2}$

75.



$$[O_1B] \perp [AB], |AO_2| = |CO_2| = r$$

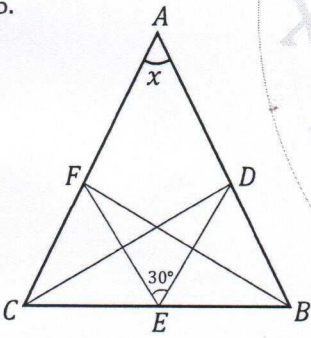
$$|CO_1| = |DO_1| = 2r$$

$$|AB| = 12br$$

$$\Rightarrow r = ?br$$

$$A)12 \quad B)4\sqrt{3} \quad C)3\sqrt{2} \quad D)2\sqrt{3} \quad E)1$$

76.



$$[BF] \perp [AC], [CD] \perp [AB]$$

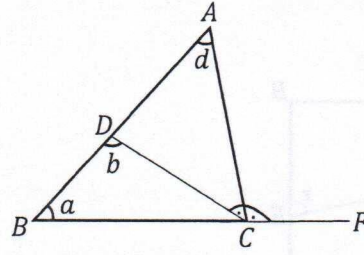
$$m(\widehat{FÊD}) = 30^\circ$$

$$|CE| = |EB|$$

$$\Rightarrow m(\widehat{CÂB}) = x = ?$$

$$A)35 \quad B)45 \quad C)60 \quad D)65 \quad E)75$$

77.



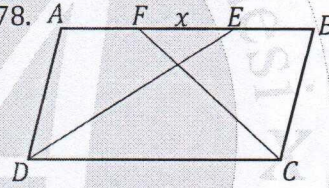
$$m(\widehat{DÊA}) = m(\widehat{AÊF})$$

$$b - a = 70^\circ$$

$$d = ?$$

$$A)25^\circ \quad B)30^\circ \quad C)35^\circ \quad D)40^\circ \quad E)45^\circ$$

78.



ABCD paralelkenar

$$m(\widehat{AÊE}) = m(\widehat{EÊC})$$

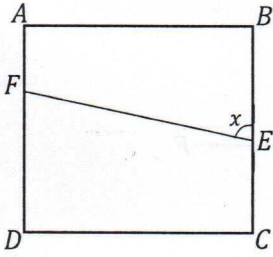
$$m(\widehat{BÊF}) = m(\widehat{FÊD})$$

$$|AD| = 18, |DC| = 24$$

$$|FE| = x = ?$$

$$A)4 \quad B)6 \quad C)8 \quad D)12 \quad E)16$$

79.



$ABCD$ kare

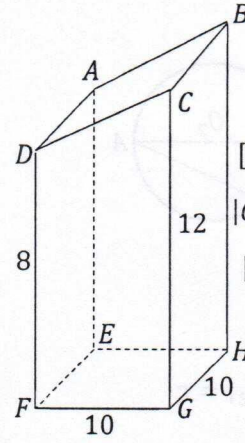
$$2|AF| = |FD|, |BE| = |EC|$$

$$m(\widehat{FÊB}) = x$$

$$\Rightarrow \tan x = ?$$

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

80.



$$[DF] \perp [FG], [FG] \perp [GC]$$

$$[HG] \perp [FG], [HE] \perp [AE]$$

$$|GH| = 10 \text{ br}, |CG| = 12 \text{ br}$$

$$|FG| = 10 \text{ br}, |DF| = 8 \text{ br}$$

$$\Rightarrow V(ABCDEFGH) = ? \text{ br}^3$$

A)729 B)960 C)810 D)1000 E)1080