



سعادت آباد - بلوار دریا - روبروی خیابان صرافها - پلاک 54 - واحد 10



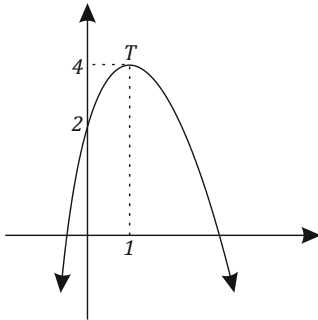
1.

$$A = \frac{\sqrt[4]{5x-10} + x^2 + x + 2}{x - \sqrt{2-x} - 1}, \quad A \in \mathbb{R}$$

$$\Rightarrow \frac{A}{x} = ?$$

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

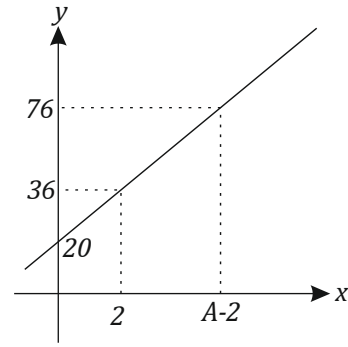
4.



$$\Rightarrow f(2) = ?$$

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

13.



$$A = ?$$

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

14.

$$\begin{array}{r} x^3 + 2x^2 + 5x + R \\ \underline{\hspace{1.5cm}} \\ 10 \end{array} \bigg| \begin{array}{r} x - 1 \\ \hline \end{array}$$

$$\Rightarrow R = ?$$

A)-2 B)0 C)2 D)4 E)-4

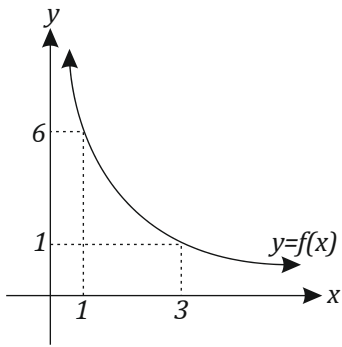
15.

$$\begin{bmatrix} 4 & y \\ -1 & y+1 \end{bmatrix} \begin{bmatrix} 2 \\ x \end{bmatrix} = \begin{bmatrix} 1 \\ -2 \end{bmatrix}$$

$$\Rightarrow y = ?$$

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

16.



$$\int_1^3 f(x) dx = 12 \Rightarrow \int_1^6 f^{-1}(x) dx = ?$$

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

17.

$$\left. \begin{array}{l} f(x) = ax^3 + 1 \\ g(x) = \sqrt{x} - 4 \\ (f \circ g)(4) = -7 \end{array} \right\} \Rightarrow a = ?$$

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

18.

$$\left. \begin{array}{l} x * y = 2x + y \\ x \bullet y = \sqrt{x^2 + y^2} \end{array} \right\} \Rightarrow 2 * (12 \bullet 5) = ?$$

A)17 B)19 C)21 D)23 E)25

19.

Δ	F	U	Y	O	S
F	Y	O	S	F	U
U	O	S	F	U	Y
Y	S	F	U	Y	O
O	F	U	Y	O	S
S	U	Y	O	S	F

$$F \Delta U^{-1} = (S \Delta Y^{-1}) \Delta X$$

$$\Rightarrow X = ?$$

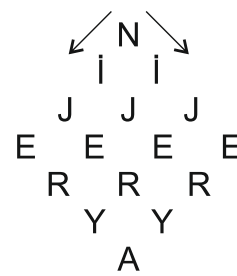
A)F B)U C)Y D)O E)S

20.

2-4-6-8-0-2-4-6-8-0-2-4-6-8-0-...-?-

A)0 B)2 C)4 D)6 E)8

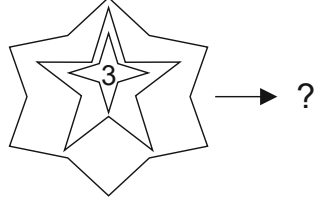
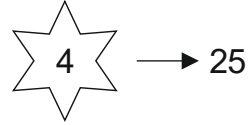
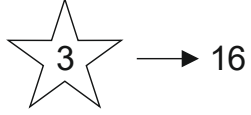
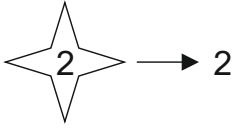
21.



Kaç farklı şekilde NİJERYA kelimesi okunur?

A)6! B)72 C)20 D)3!3! E) $\frac{6!}{3!}$

22.



A)225 B)400 C)397 D)400 E)361

23.

$$\left. \begin{aligned} f: & (A Z E R B a Y C \forall N) \\ g: & (A Z E R B a Y C \forall N) \end{aligned} \right\} \Rightarrow$$

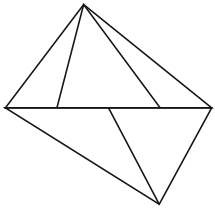
$$\Rightarrow f \circ g = (A Z E R B a Y C \forall N)$$

A)NCaREA\forall BZY B)NCARE\forall aBZY

C)NCAREa\forall BYZ D)NCAREaB\forall ZY

E)NCAREa\forall BZY

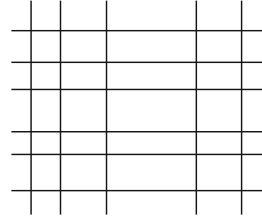
24.



Şekilde kaç üçgen vardır?

A)9 B)12 C)5 D)7 E)11

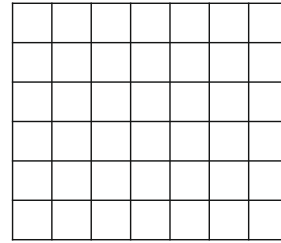
25.



Şekilde kaç dikdörtgen vardır?

A)128 B)140 C)148 D)160 E)150

26.



Şekilde 3x3 tipinde kaç kare vardır?

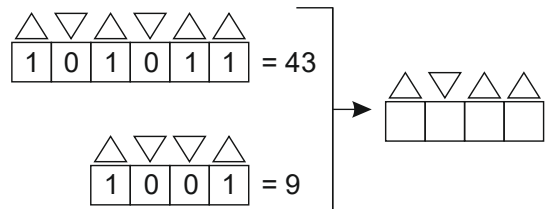
A)15 B)20 C)12 D)22 E)10

27.



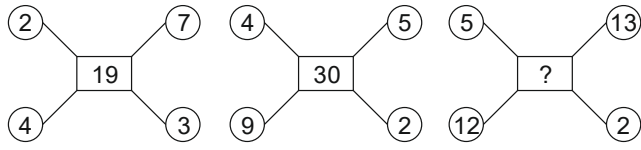
A)1576 B)7013 C)6291 D)4394 E)6141

28.



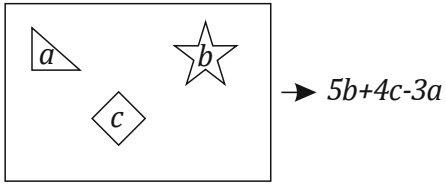
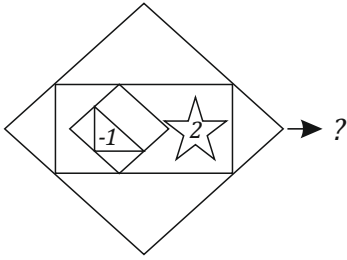
A)15 B)10 C)8 D)11 E)9

29.



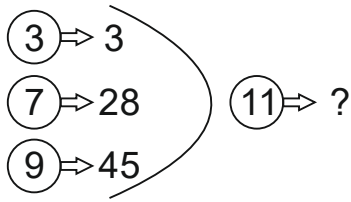
A)35 B)22 C)50 D)60 E)52

30.

 $\rightarrow 5b + 4c - 3a$  $\rightarrow ?$

A)88 B)49 C)55 D) - 88 E) - 55

31.



A)81 B)90 C)45 D)66 E)55

32.

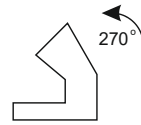
*	s	c
s		3
c		

$\Rightarrow s^3 + c^3 = ?$

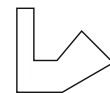
+	s	c
s		
c	5	

A)120 B)80 C)115 D)94 E)85

33.



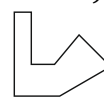
A)



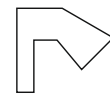
B)



C)



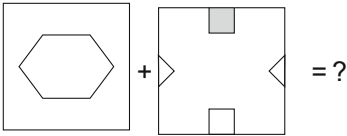
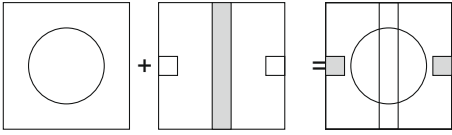
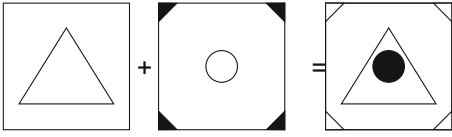
D)



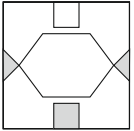
E)



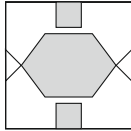
34.



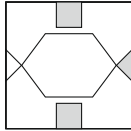
A)



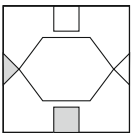
B)



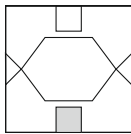
C)



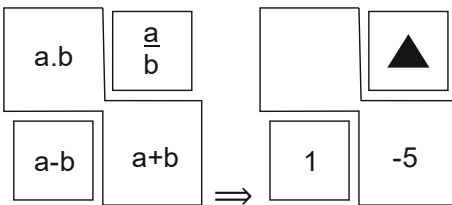
D)



E)



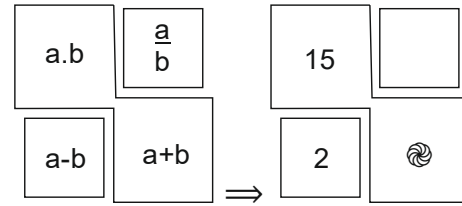
35.



▲ = ?

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

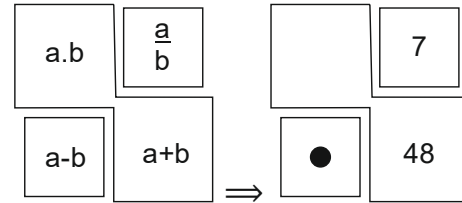
36.



☼ = ?

A) 2 B) 3 C) 5 D) 8 E) 1

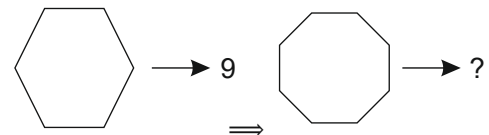
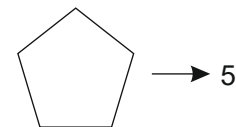
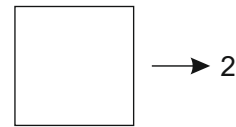
37.



● = ?

A) 6 B) 42 C) 7 D) 8 E) 36

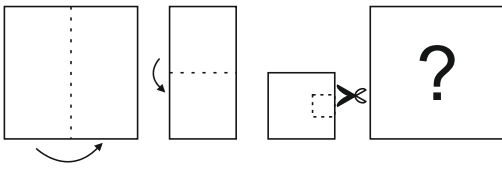
38.



A) 12 B) 15 C) 20 D) 27 E) 32

Ü

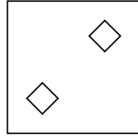
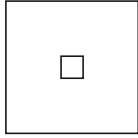
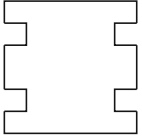
39.



A)

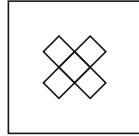
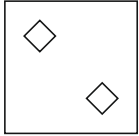
B)

C)

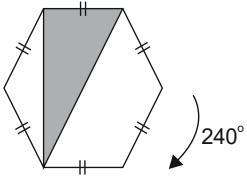


D)

E)



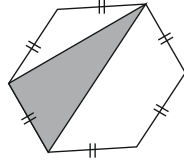
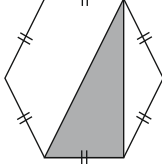
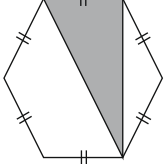
40.



A)

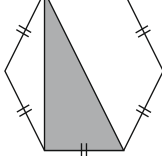
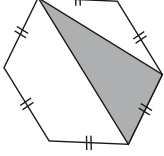
B)

C)



D)

E)

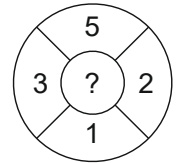
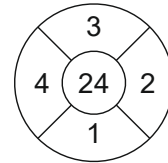
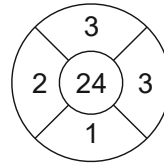


41.

$$2 - 4 - 10 - 28 - ? - 244$$

A)56 B)64 C)82 D)88 E)92

42.



A)18 B)24 C)30 D)35 E)45

43.

$$31222 = 84$$

$$34322 = 127$$

$$35422 = 168$$

$$36321 = ?$$

A)39 B)49 C)59 D)69 E)81

44.

$$20 \triangle 3 = 8$$

$$36 \triangle 5 = 14$$

$$48 \triangle 7 = 19$$

$$60 \triangle 9 = ?$$

A)18 B)24 C)36 D)42 E)48

45.



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

46.

$$\begin{matrix} MEVA \\ ÖMER \\ METE \\ TÖRE \end{matrix} \left\{ \begin{array}{l} | + \boxplus + \boxtimes | + \square \\ \boxplus \boxtimes \square + | + \triangle \square \end{array} \right.$$

ÖVER = ?

- A) $\boxplus \triangle + \boxtimes$ B) $\boxtimes \triangle + \boxplus$ C) $\boxtimes + \triangle \square$
D) $\boxtimes \triangle + \square$ E) $\square + \triangle \boxtimes$

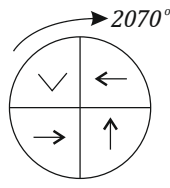
47.

$$\triangle 15 \rightarrow 5$$

$$\square 24 \rightarrow 6 \quad \pentagon 35 \rightarrow ?$$

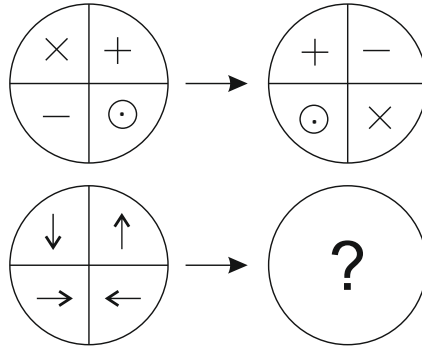
- A) 7 B) 9 C) 10 D) 15 E) 20

48.



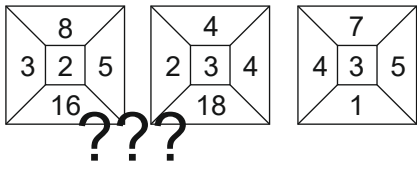
- A) B) C)
D) E)

49.



- A) B)
C) D)
E)

50.



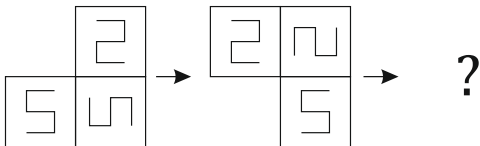
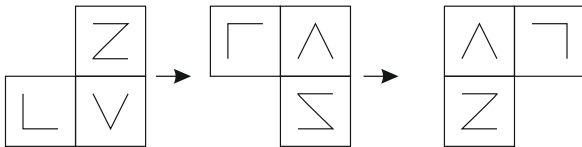
- A)18 B)27 C)36 D)45 E)54

51.

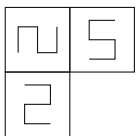
$$\begin{cases} \square\square\square = 12 + \triangle\triangle \\ \triangle\triangle\triangle\triangle = 9 + \square \end{cases} \Rightarrow \square \times \triangle = ?$$

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

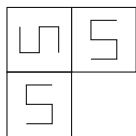
52.



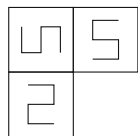
A)



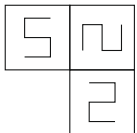
B)



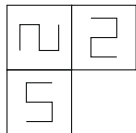
C)



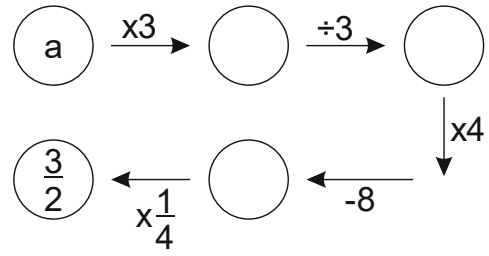
D)



E)

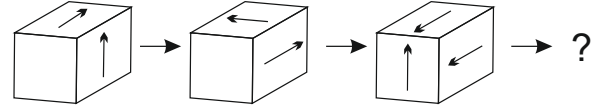


53.

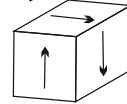
 $a = ?$

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

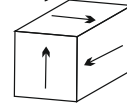
54.



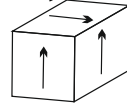
A)



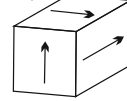
B)



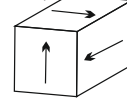
C)



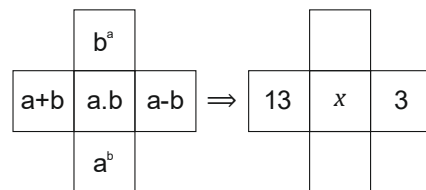
D)



E)

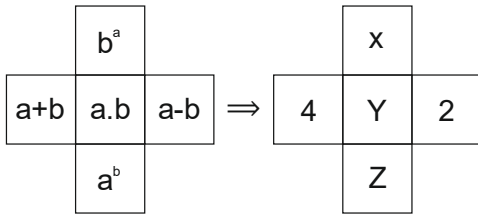


55.

 $\Rightarrow x = ?$

- A)10 B)15 C)25 D)35 E)40

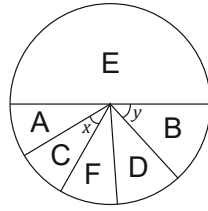
56.



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

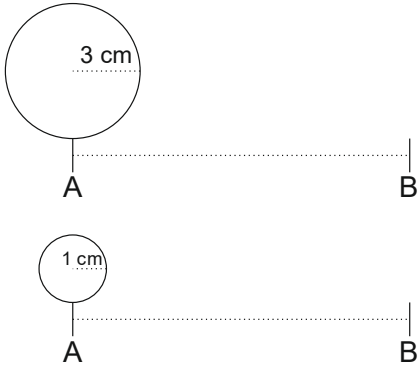
57.

A	B	C	D	E	F
4	20	8	16	60	12

 $x + y = ?$

A)74 B)78 C)84 D)86 E)88

58.



A ve B noktaları arası 180 metredir. Büyük çemberin yarıçapı 3 cm, küçük çemberin yarıçapı 1 cm dir. İki çember A noktasından B noktasına yuvarlandığında küçük çember büyük çemberin kaç katı fazla tur atmış olur?

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

59.

$$| + // = \triangle$$

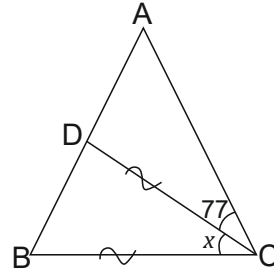
$$\square - \triangle = //$$

Yukarıdaki işlemler belirli bir mantık ile yazıldığına göre.

$$[(| + \triangle) \div (\boxminus - |)] \times (\boxminus - //) = ?$$

A)| B)|| C) $\triangle$ D) $\square$ E) $\boxminus$

60.



$$|AB| = |AC|$$

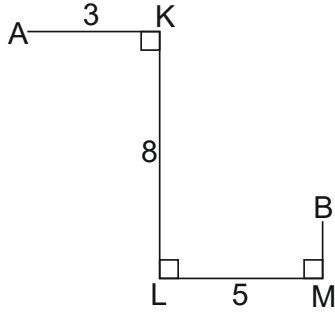
$$|DC| = |BC|$$

$$m(\angle ACD) = 27^\circ$$

$$m(\angle BCD) = x = ?$$

A)27 B)28 C)30 D)32 E)42

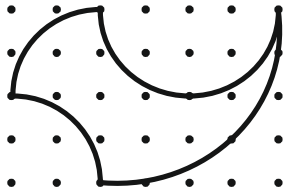
61.



Verilenlere göre A ve B noktaları arasındaki en kısa uzaklık kaç birimdir?

- A)8 B)9 C)10 D)11 E)13

62.



birim karelere bölünmüş noktalı kağıt üzerine çizilen kapalı şeklin çevresi kaç birimdir?

- A)4π B)6π C)8π D)10π E)12π

63.

$$\frac{x}{y} = -\frac{1}{3} \Rightarrow \left(\frac{y}{x}\right)^{-4} = ?$$

- A) $-\frac{1}{81}$ B) $-\frac{1}{27}$ C) $\frac{1}{9}$ D) $\frac{1}{27}$ E) $\frac{1}{81}$

64.

$$A = \{a, b, c, d, e, f, g\}$$

Kümesinin alt kümelerinin kaç tanesinde a ve e eleman olarak bulunur, f bulunmaz?

- A)8 B)16 C)32 D)64 E)120

65.

$$\lim_{x \rightarrow -4} \frac{x^2 - 15x - 76}{x + 4} = ?$$

- A) -23 B) -19 C) -15 D)0 E)23

66.

$$f(x) = \arctan x$$

Fonksiyonunun türevi $g(x)$ fonksiyonu olduğuna göre $\int_0^1 g(x) dx = ?$

- A) $-\infty$ B) $-\pi$ C) $\frac{\pi}{4}$ D) $-\frac{\pi}{4}$ E) ∞

67.

Karekökü 0,2 olan bir sayının küpü ile, küp kökü 0,01 olan bir sayının karekökünün oranı kaçtır?

- A)0,04 B)0,008 C)0,016 D)0,64 E)0,064

68.

Çevresi a birim olan bir çemberin yarıçapı 4 katına çıkarılırsa, çevresi kaç a artar?

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

69.

Alanı 4π birim kare olan bir dairenin alanının 16π birim kare olması için yarıçapı kaç kat artırılmalıdır?

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

70.

$$\log_a b^4 = 9 \Rightarrow \log_{a^3} b = ?$$

A) $\frac{1}{4}$ B) $\frac{3}{4}$ C)1 D) $\frac{4}{9}$ E)2

71.

$$i^2 = -1,$$

$$Z = 3i^{37} + i^{35} - i^{12} \Rightarrow Z = ?$$

A) $-1 + 4i$ B) $-1 - 4i$ C) $1 - 4i$
D) $-1 + 2i$ E) $-1 - 2i$

72.

$$(3x - 1)^2 e^{5x} + (3y + 2)^2 e^{3y} = 0 \Rightarrow x \cdot y = ?$$

A) $-\frac{2}{9}$ B) $-\frac{1}{9}$ C)0 D) $\frac{1}{9}$ E) $\frac{2}{9}$

73.

$$(3x - 4)^{x+4} = 1 \Rightarrow$$

x in alabileceği değerler toplamı kaçtır?

A) $-\frac{11}{3}$ B) $-\frac{7}{3}$ C) $-\frac{4}{3}$ D) $\frac{1}{3}$ E) $\frac{4}{3}$

74.

$$(5, \bar{9})^{-1} \cdot (2, \bar{3})^{-1} = ?$$

A) $\frac{1}{7}$ B) $\frac{2}{7}$ C) $\frac{1}{14}$ D) $\frac{3}{14}$ E) $\frac{5}{14}$

75.

$$\left(-\frac{1}{3}\right)^{-5} \cdot \left(-\frac{3}{2}\right)^{-4} = ?$$

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

76.

$$\frac{3x + 1}{7}$$

Kesrinin bileşik olmasını sağlayan x tamsayılarının toplamı kaçtır?

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

77.

Ardışık 6 çift tamsayının en küçüğü ile en büyüğü arasındaki fark kaç olabilir?

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