



(01)

$$\frac{\frac{1}{5} - \left(\frac{1}{8} + \frac{1}{2}\right)}{\frac{7}{10} - \frac{4}{2}} = ?$$

- A)  $\frac{7}{5}$     B) -1    C)  $\frac{11}{4}$     D)  $\frac{17}{52}$     E)  $\frac{19}{52}$

(02)

$$\frac{7}{5} : \left(\frac{1}{3} - \frac{1}{10}\right) - 4\left(\frac{7}{2} - \frac{1}{4}\right) = ?$$

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

(03)

$$\frac{6^3 - 3^3 - 2^3 + 2}{2^3} = ?$$

- A) 0    B)  $\frac{2}{4}$     C) 1    D)  $\frac{181}{8}$     E)  $\frac{183}{8}$

(04)

$$\frac{15^3 \cdot 2^2 + 5 \cdot 6^3}{10 \cdot 9^3} = ?$$

- A) 1    B)  $\frac{37}{19}$     C) 2    D)  $\frac{37}{108}$     E)  $\frac{43}{91}$

(05)

$$\frac{5! \cdot 3! - 6!}{4! \cdot 2! - 3!} = ?$$

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

(06)

$$\frac{4 \cdot 54^x}{6^{x-1} \cdot 2} = \frac{648}{4^{x-1} \cdot 6^x} \quad x = ?$$

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

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(07)

$$\sqrt{\frac{\sqrt{2} \cdot \sqrt{3} \cdot \sqrt{5} \cdot \sqrt{7}}{\sqrt{8} \cdot \sqrt{10} \cdot \sqrt{14} \cdot \sqrt{27}}} = ?$$

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

(08)

$$\frac{\sqrt{1000} \cdot \sqrt{30} - \sqrt{300}}{2\sqrt{3} \cdot 3\sqrt{3} \cdot 5\sqrt{3}} = ?$$

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

(09)

$$\frac{a^2 - ab - 2b^2}{a^2 - 3ab + 2b^2} \cdot (a - b)^2 = ?$$

- A)  $a^2 - ab$    B)  $a + 3b$    C)  $ab - 2ab$   
D)  $2a + b^2$    E)  $a^2 - b^2$

(10)

$$x^3 - x^2 - x - 1 = (x^2 + 1)(x - 1) + nx + m$$

$$\rightarrow n^2 + m^2 = ?$$

- A) 1   B) 2   C) 3   D) 4   E) 5

(11)

$$|7 - b| = 9 \quad |c - 3| = a$$

$$|a + 15| = 16 \quad b > 0$$

$$\rightarrow a + b + c \text{ kaç olabilir} = ?$$

- A) 18   B) 20   C) 21   D) 23   E) 24

(12)

$$3^{m-1} = \sqrt{2}$$

$$\rightarrow \left(\frac{1}{9}\right)^{1-m} = ?$$

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

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(13)

$$-1 < x < 0 \rightarrow ? < ? < ?$$

- A)  $x^5 < x^4 < x^6$     B)  $x^6 < x^5 < x^4$     C)  $x^5 < x^6 < x^4$   
 D)  $x^6 < x^4 < x^5$     E)  $x^4 < x^5 < x^6$

(14)

c tam sayı olduğuna göre,

$$20 < a + 3 < b - 2 < 24$$

$$c = \frac{a+b+1}{5} \rightarrow a+b+3 = ?$$

- A) 25    B) 33    C) 35    D) 40    E) 47

(15)

$$6x + \sqrt{3x+y} = 23 \quad 2y - \sqrt{3x+y} = 27$$

$$\rightarrow x \cdot y = ?$$

- A) 40    B) 30    C) 24    D) 48    E) 50

(16)

$$f(2^x) = \frac{3^x + 1}{2}$$

$$f(a) = 14 \rightarrow f\left(\frac{a}{16}\right) = ?$$

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

(17)

$$x \cdot y = -6 \quad x(x - 2y - 4) = 8$$

$$\rightarrow x + y = ?$$

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

(18)

$$2f(x) + f(2-x) + x^2 = 8$$

$$f(0) + f(2) = ?$$

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

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(19)

$$\begin{array}{r} MM \\ XNN \\ \hline MM \\ + \dots \\ \hline 84M \end{array} \quad \begin{array}{r} NMM \mid 59 \\ \hline 0 \mid A \end{array}$$

$A + M + N = ?$

- A) 10    B) 11    C) 12    D) 13    E) 14

(20)

$$\frac{x}{y} = \frac{3}{7} \quad \frac{y+z}{3z} = \frac{3}{2}$$

$\frac{y}{3x-z} = ?$

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

(21)

$2x - y = x - 2y = 10$

$x = ?$

- A) 2    B)  $\frac{10}{3}$     C) 5    D)  $\frac{-13}{3}$     E) 6

(22)

$P(x) = 2x^3 + ax + b$

$P(0) = P(2)$  ,  $P(3) = 47$

$a + b = ?$

- A) 9    B) 14    C) 17    D) 20    E) 24

(23)

$Q(x) \neq 0$

$p(x) = (x-1) \cdot Q(x-a)$

$4P(x) + 9H(x) = 0$

$Q(0) = -H(a)$

$\rightarrow a = ?$

- A)  $\frac{7}{2}$     B)  $\frac{9}{2}$     C)  $\frac{13}{4}$     D)  $\frac{-13}{4}$     E)  $\frac{-9}{2}$

(24)

$B \subseteq A$      $C \not\subseteq A$

$A \cup C = \{a, b, c, d, e\}$

$A / B = \{a, b, c\}$

$A / C = \{b, c, d\}$

$B = ?$

- A)  $\{a, c, d\}$     B)  $\{c, d\}$     C)  $\{e\}$   
D)  $\{d\}$     E)  $\{e, c, d\}$

(25)

$$\frac{x+1}{x-3} = \frac{x-1}{3} + \frac{x-2}{6}$$

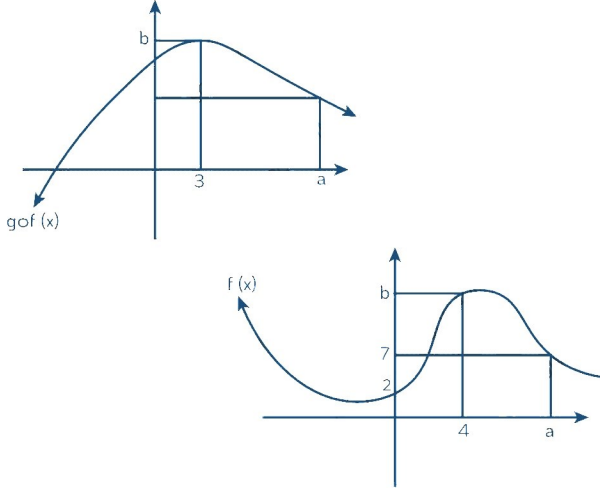
$\rightarrow x = ?$

- A) 1    B) 3    C) -1    D) 2    E) 6

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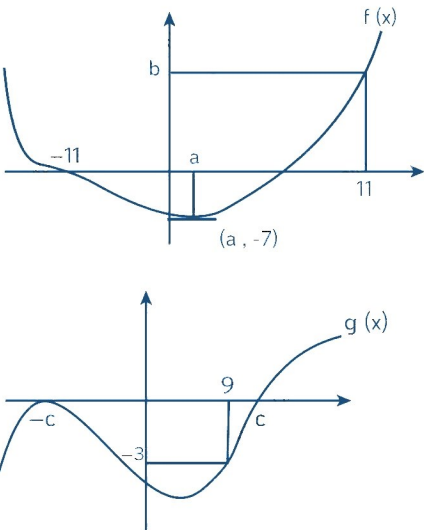
(26)



$f(x-2) = g(x+5)$  ,  $fog(6) = gof(4)$   
 $gof(a) = f(-1)$  ,  $g(10) = 10$  ,  $f(0) = 2$   
 **$f(2) = ?$**

- A) 9    B) 10    C) 12    D) 13    E) 15

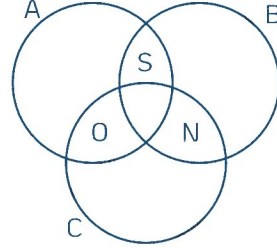
(27)



$f(x+g(x)) = x.g(x) + x - c + b$   
 **$a + b + c = ?$**

- A) 35    B) 39    C) 41    D) 46    E) 50

(28)

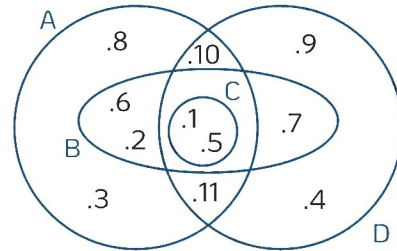


$A = \{1,3,2,6\}$      $B = \{2,3,5\}$      $C = \{3,5,6\}$

→  $S + O + N = ?$

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

(29)



→  $(A \setminus B) \cap (D \setminus C) = ?$

- A) { 7,11,10 }    B) { 10,11 }    C) { 1,5 }  
 D) { 2,6,7 }    E) { 11 }

(30)

$x, y$  Tam sayılardır.

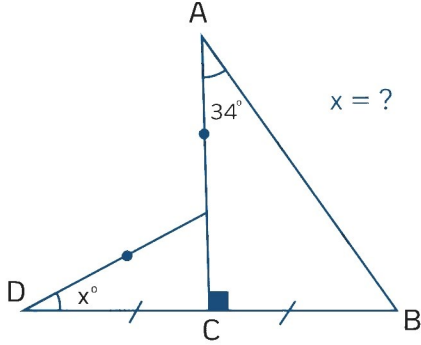
$|x - 6| = |x + 2|$  ,  $|y + 1| = |2y - 6|$

→  $x - y = ?$

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

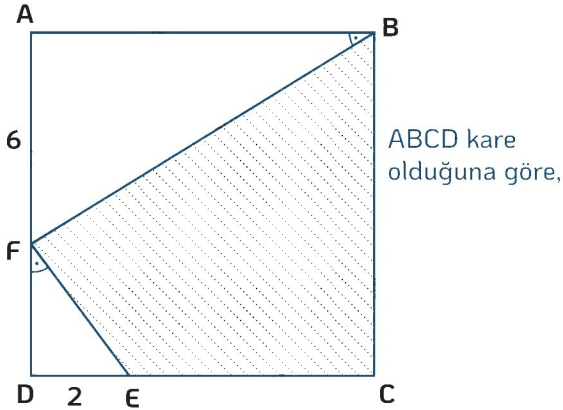
متروپول سعادت آباد

(31)



- A) 22 B) 29 C) 38 D) 42 E) 53

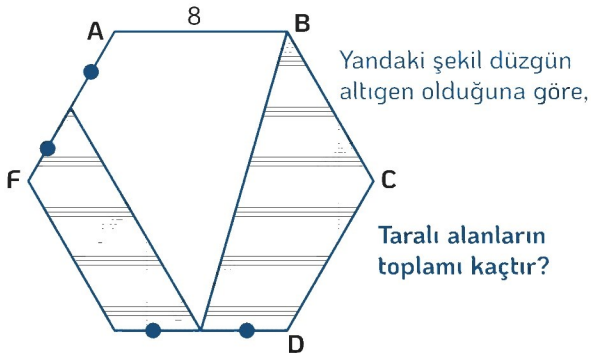
(32)



Taralı alan kaçtır?

- A) 49 B) 50 C) 51 D) 53 E) 55

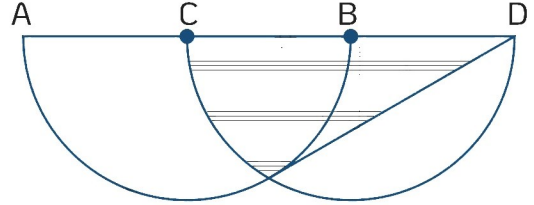
(33)



Taralı alanların toplamı kaçtır?

- A) 37 B) 48 C)  $\sqrt{1364}$  D) 52 E)  $52\sqrt{3}$

(34)

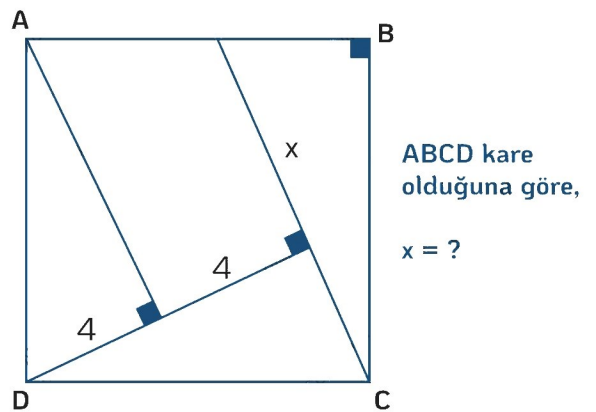


$|AD| = 18$

Taralı alan kaçtır?

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

(35)

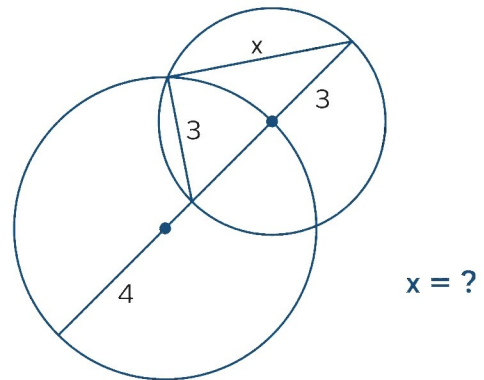


ABCD kare olduğuna göre,

$x = ?$

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

(36)



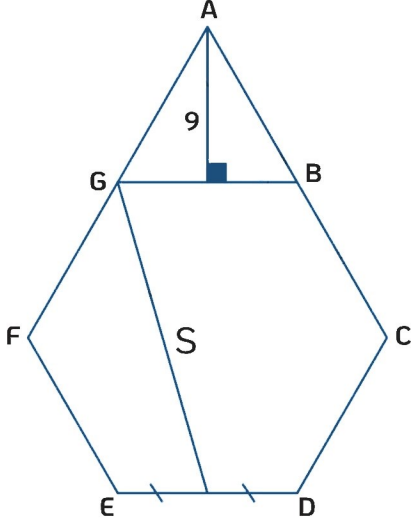
$x = ?$

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

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(37)

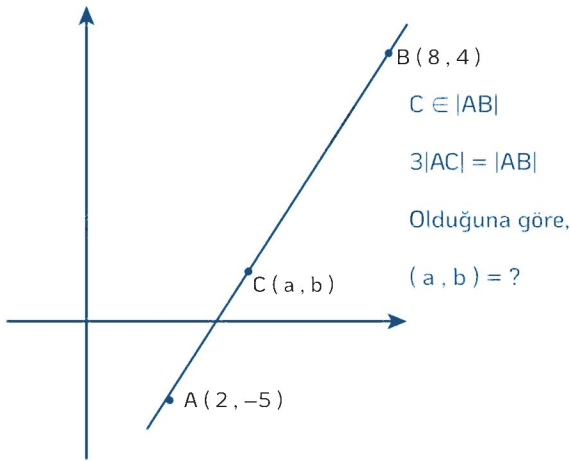


ABG eşkenar üçgen  
BCDEFG düzgün altıgen olduğuna göre,

$S = ?$

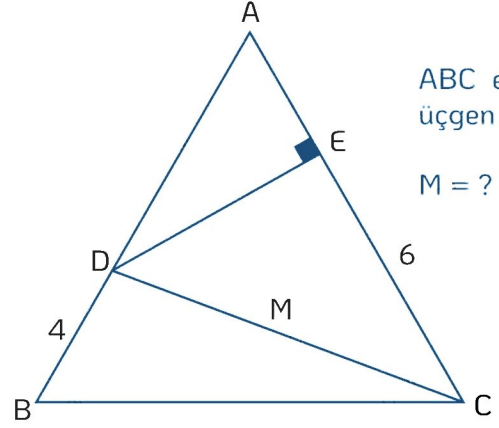
- A) 19    B) 22    C)  $\sqrt{345}$     D) 18    E)  $\sqrt{351}$

(38)



- A) (-2, 2)    B) (-2, 4)    C) (4, -2)  
D) (3, -2)    E) (4, 3)

(39)

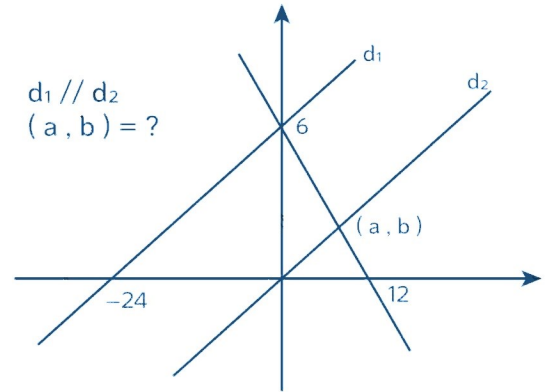


ABC eşkenar üçgen ise,

$M = ?$

- A) 8    B) 10    C)  $\sqrt{48}$     D) 9    E)  $\sqrt{58}$

(40)



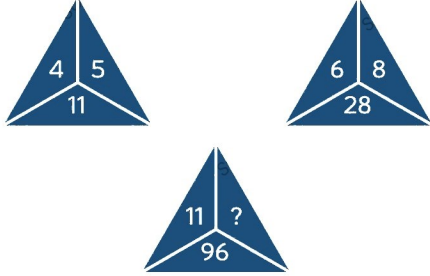
- A) (8, 2)    B) (7, 4)    C) (9, 2)  
D) (2, 8)    E) (4, 1)

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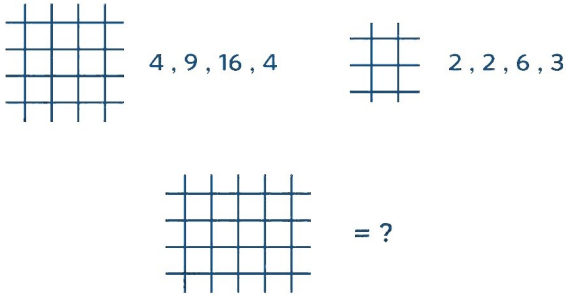


(41)



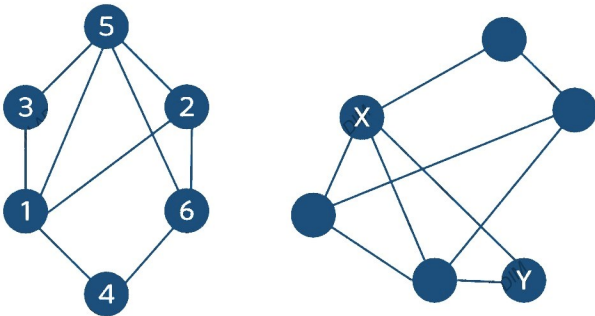
- A) 16 B) 15 C) 37 D) 25 E) 36

(42)



- A) 5,10,20,5 C) 5,12,16,3 E) 5,12,20,4  
B) 4,12,25,4 D) 5,10,25,4

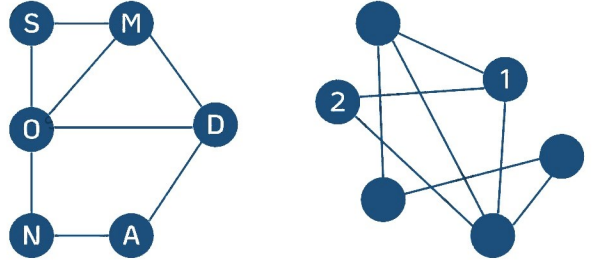
(43)



Y, X = ?

- A) 2, 1 B) 3, 5 C) 4, 5 D) 3, 1 E) 4, 6

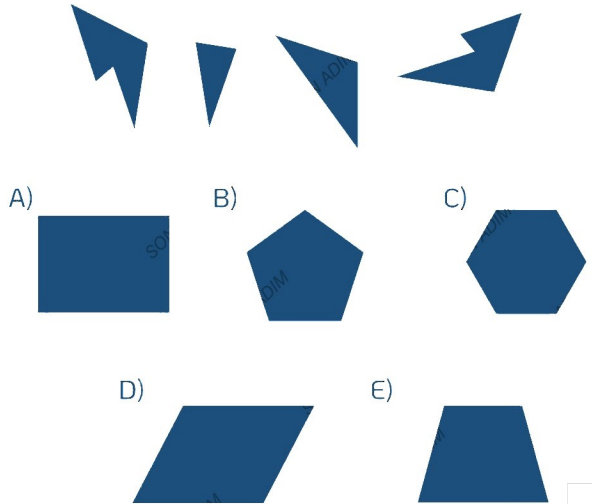
(44)



1, 2 = ?

- A) A, D B) N, D C) A, M D) M, S E) M, O

(45)



(46)

TOZLU	25314
SUMAK	47965
LOKUM	65021
MANTO	81473

OSTAM = ?

- A) 52814 B) 52874 C) 42876  
D) 58674 E) 02576

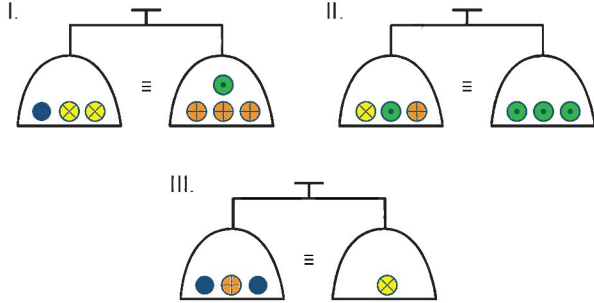
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(47)



$$\frac{\text{blue} + \text{yellow}}{\text{green} + \text{orange}} = ?$$

- A) 2/3 B) 3/7 C) 1 D) 2 E) 3

(48)

$$a, b, c > 0$$

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

$$a + b + c = ?$$

- A) 11 B) 23 C) 34 D) 18 E) 30

(49)

+	a	b	c
a	4x		
b		y	
c			$\frac{z}{3}$

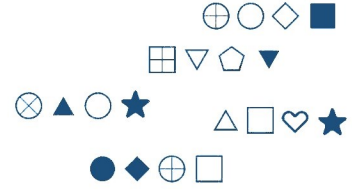
x	a	b	c
a	x		
b		y	
c			z

$$x \cdot y \cdot z = ?$$

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

(50)

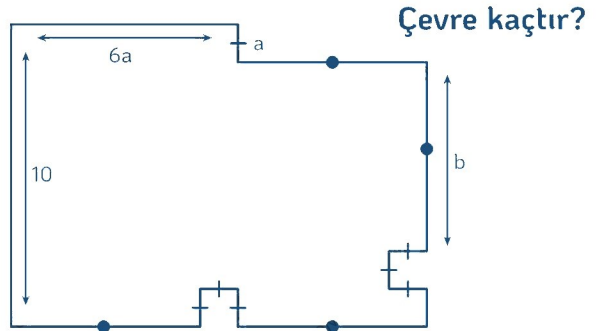
İVME  
ÖYVÜ  
PERÜ  
ATKI  
USİN



AKTÖR = ?

- A) B) C) D) E)

(51)



- A) 44 B) 50 C) 52 D) 54 E) 55

(52)

$$18 = 96321$$

$$8 = 421$$

$$17 = 1$$

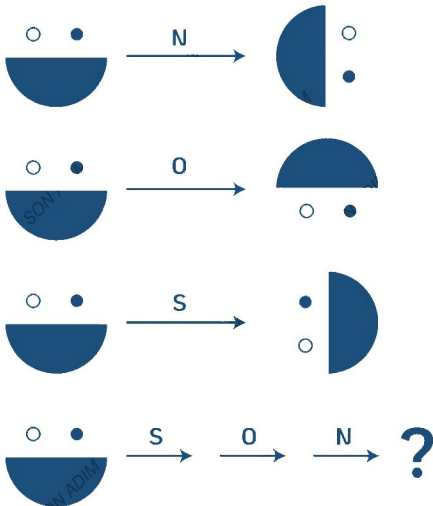
$$15 = ??????$$

- A) 15531 B) 531 C) 351 D) 532 E) 315

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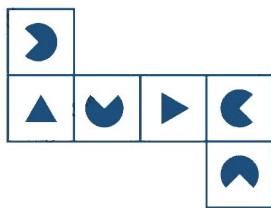


(53)



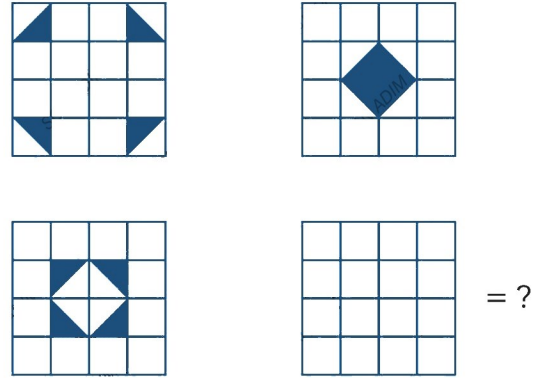
- A) C) E)   
 B) D)

(54)



- A) B) C)   
 D) E)

(55)



- A) B)   
 C) D)   
 E)

(56)

10	12	11	8	7	9
9	11	4	14	7	9
12	11	8	9	6	5
7	10	12	4	6	9
8	11	5	10	4	7
A	6	4	B	8	12

A + B = ?

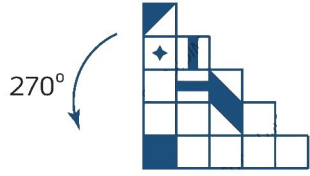
- A) 12    B) 16    C) 20    D) 15    E) 18

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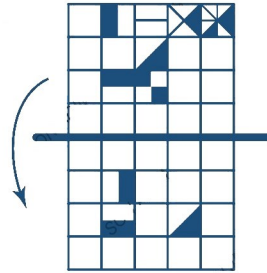


(57)



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

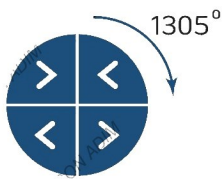
(59)



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

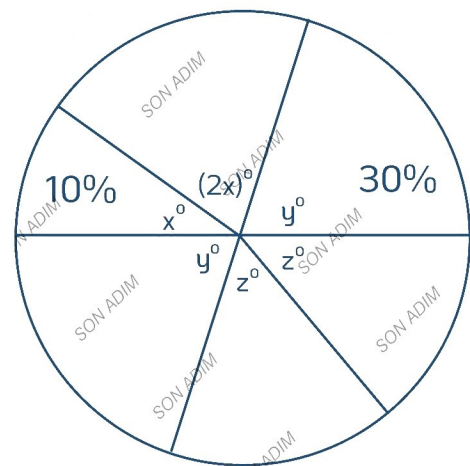
متروپل سعادت آباد

(58)



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

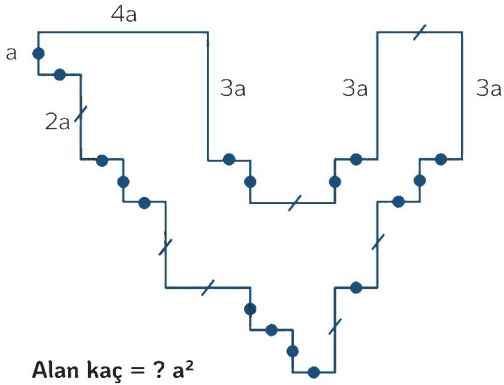
(60)



$$x + y + z = ?$$

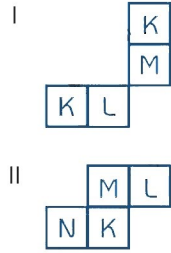
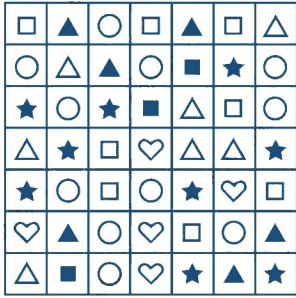
- A) 162 B) 96 C) 180 D) 164 E) 120

(61)



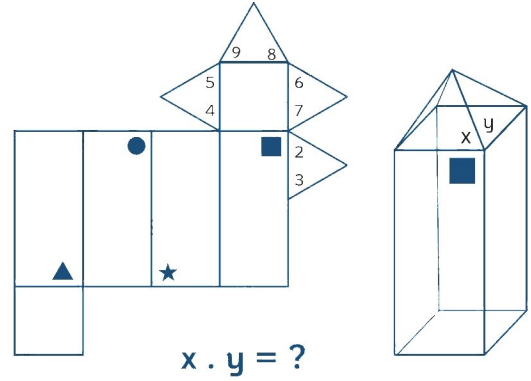
- A) 28 B) 31 C) 33 D) 34 E) 35

(62)



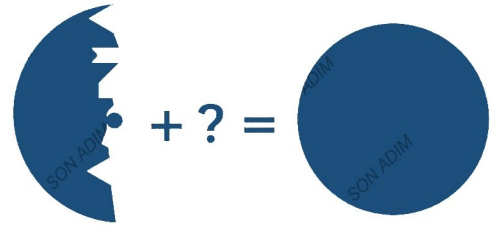
- |    |   |   |
|----|---|---|
|    | M | N |
| A) | □ | ♥ |
| B) | ○ | ♥ |
| C) | □ | ★ |
| D) | ★ | ▲ |
| E) | ■ | □ |

(63)



- A) 14 B) 24 C) 21 D) 27 E) 18

(64)

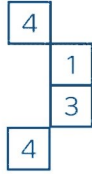


- A)
- B)
- C)
- D)
- E)

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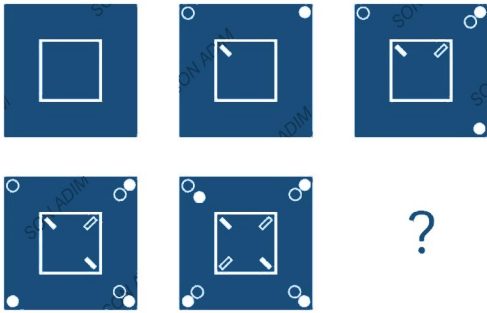
(65)

e	c	d	b	d	a	f
f	d	a	c	f	d	e
b	a	d	b	c	a	e
e	a	c	c	b	a	c
f	b	a	a	e	d	b
c	a	b	d	c	b	a
a	d	c	b	f	e	c



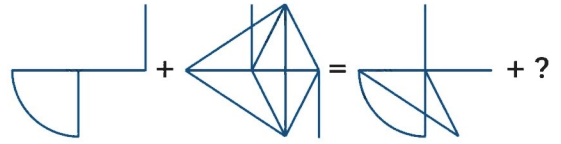
- 1            3  
A) b            c  
B) c            a  
C) d            e  
D) c            b  
E) a            c

(66)



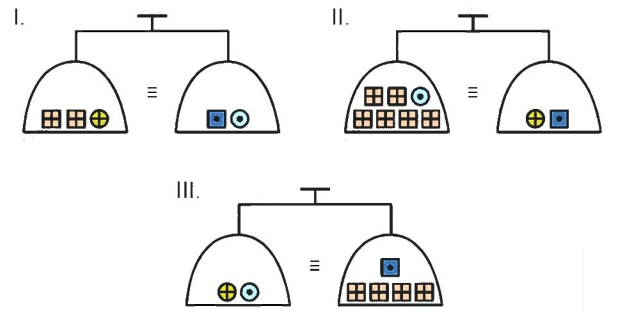
- A) B) C)   
D) E)

(67)



- A) B) C)   
D) E)

(68)



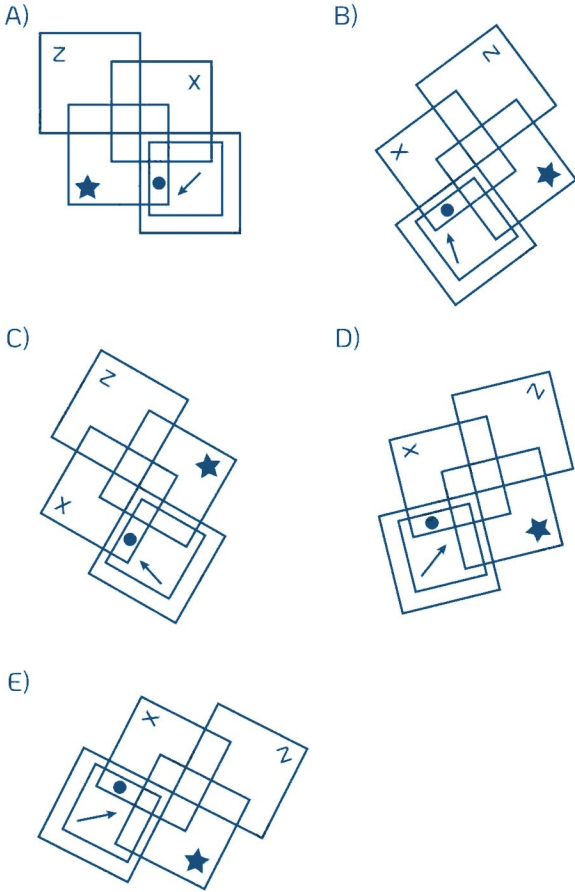
? > ? > ? > ?

- A) B)   
C) D)   
E)

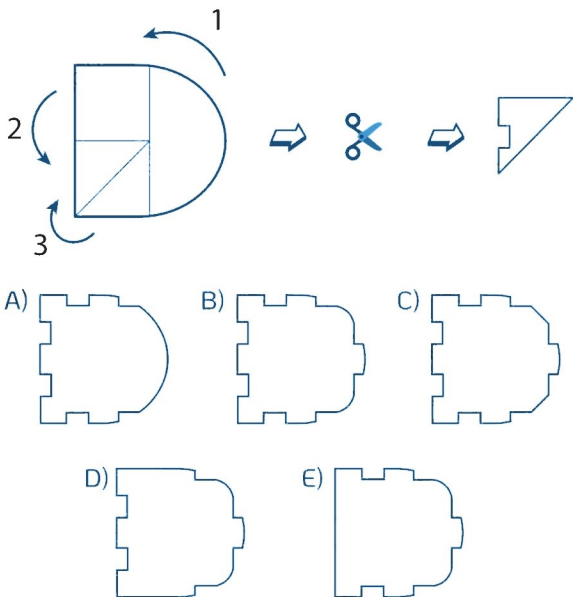
متروپول سعادت آباد

69

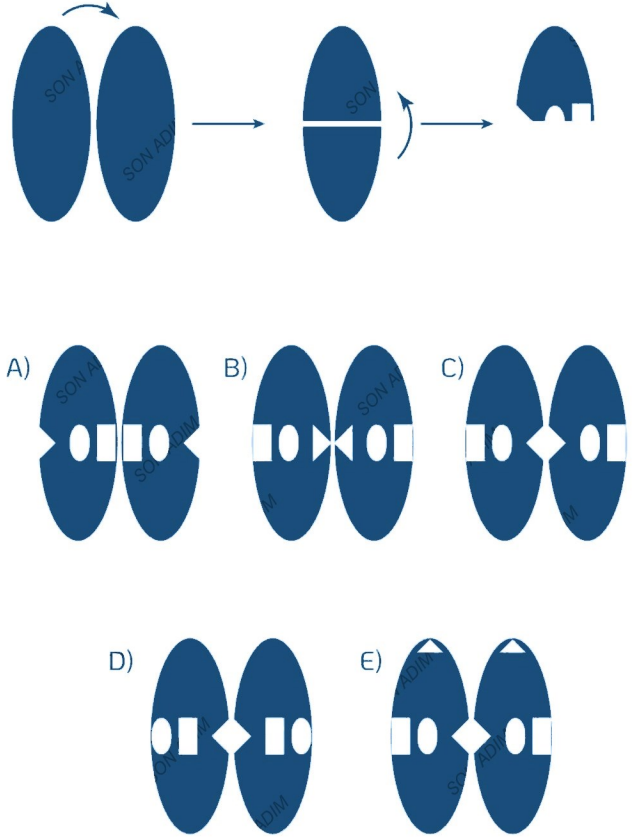
Hangisi diğerlerinden farklıdır?



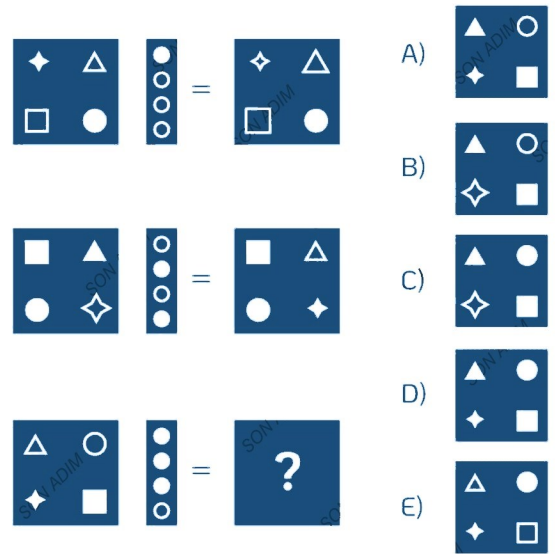
70



71



72








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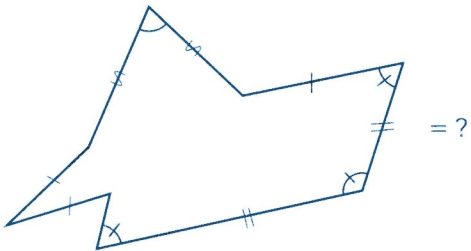
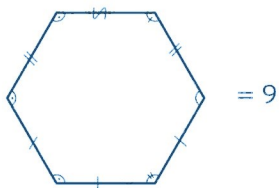
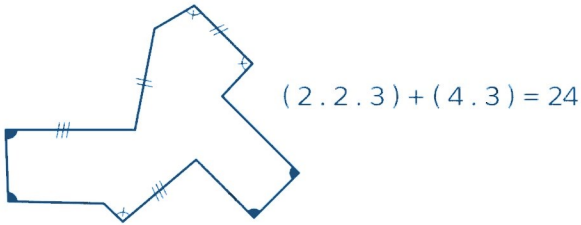


(73)

Hangisi diğerlerinden farklıdır?

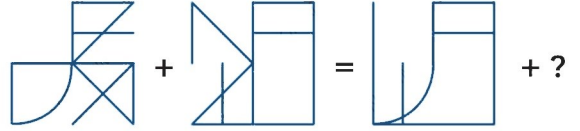
- A) 
- B) 
- C) 
- D) 
- E) 




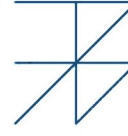

(74)



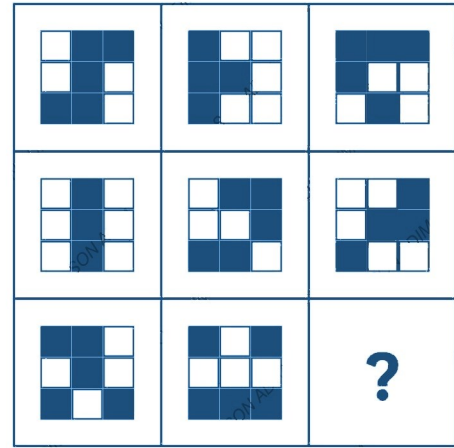
- A) 14 B) 12 C) 15 D) 6 E) 24



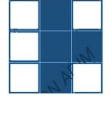

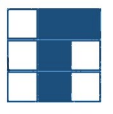
(75)



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

(76)



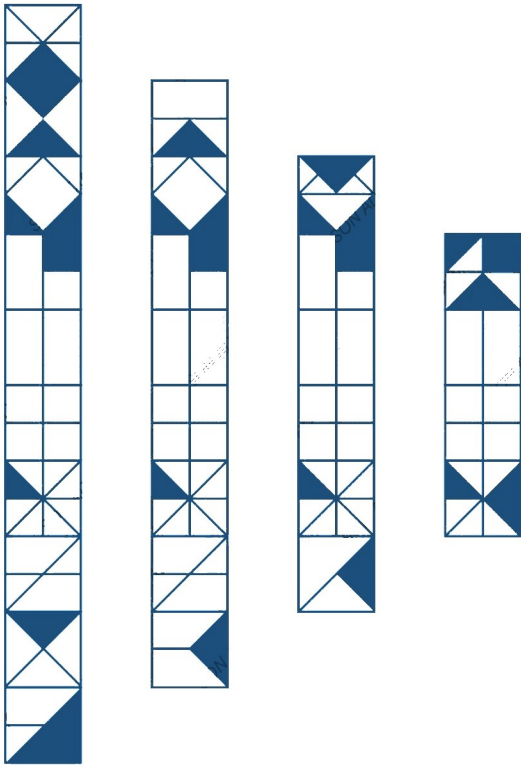
- A) 
- B) 
- C) 
- D) 
- E) 

متروپل سعادت آباد



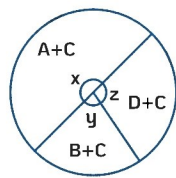
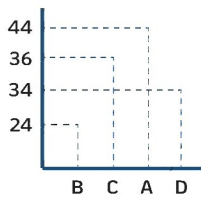


(77)



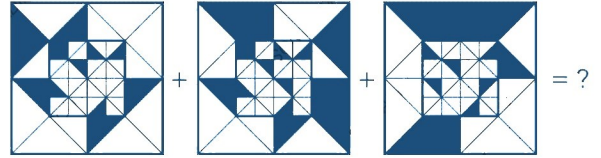
- A) B) C) D) E)

(78)



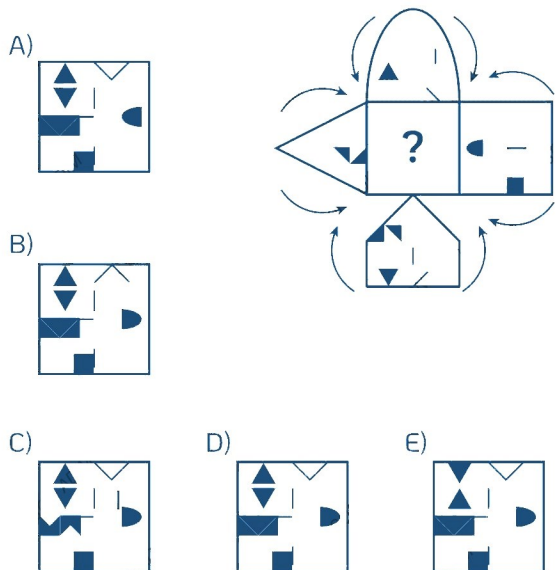
- A) B) C) D) E)

(79)



- A) B) C) D) E)

(80)



- A) B) C) D) E)

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