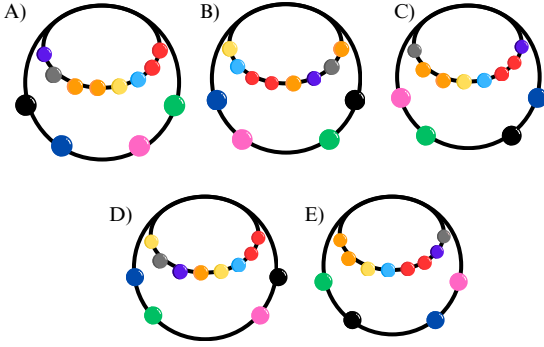


1. Aşağıdakilerden hangisi farklıdır



2.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17			
18	19	20	21	22	23	24			
25	26	27	28	29	30	31			
32	33	34	35	36	37	38			
39	40	41	42	43	44	45			

→ 21

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17			
18	19	20	22	23	24	25			
26	27	28	29	30	31	32			
33	34	35	36	37	38	39			
40	41	42	43	44	45				

↓ 27 7 22

1	2	3	4	5	6	8	9		
10	11	12	14	15	16				
17	18	20	23	24	25				
26	28	29	A	31	32	33			
34	35	36	37	38	39				
40	B	42	43	44	45				

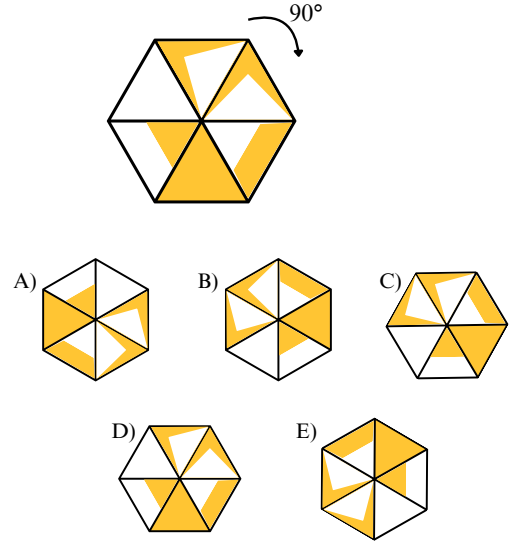
← C 13 30 41

1	2	3	4	5	6	8	9		
10	11	12	13	14	15	16			
17	18	19	20	23	24	25			
26	28	29	30	31	32	33			
34	35	36	37	38	39				
40	41	42	43	44	45				

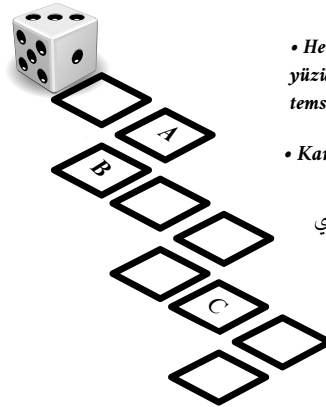
$$A+B+C=?$$

- A) 71 B) 81 C) 80 D) 90 D) 100

3.



4.



• Her harf, üzerinde durduğu küpün üst yüzündeki siyah noktaların sayısını temsil eder

• Karşılıklı yüelerin toplamı 7'ye eşittir

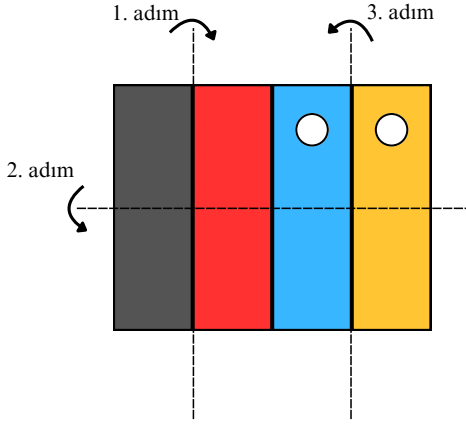
• كل حرف يعبر عن عدد النقاط السوداء الموجودة في الوجه العلوي من المكعب الذي يقف فوقه

• مجموع الأوجه المتقابلة يساوي 7

$$\Rightarrow A+B+C=?$$

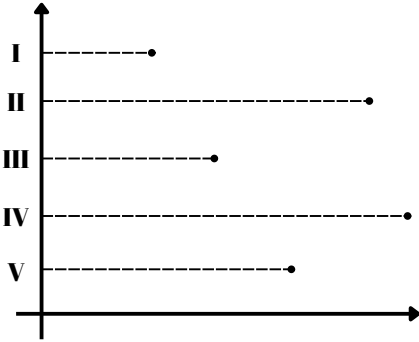
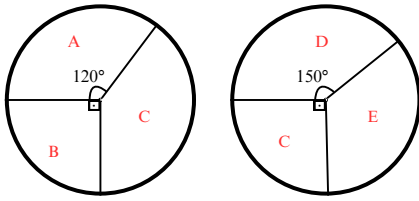
- A) 6 B) 7 C) 8 D) 9 E) 12

5.



- A) B) C) D) E)

6.



I = ?, II = ?, III = ?, IV = ?, V = ?

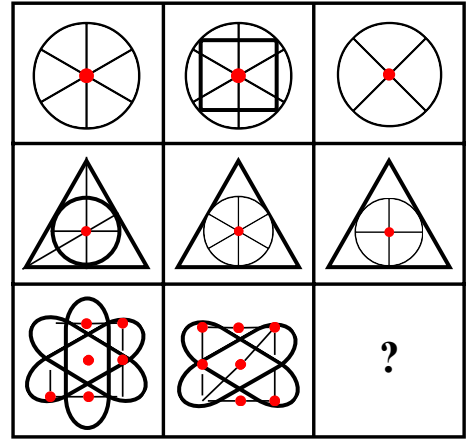
- A) B, E, A, D, C B) D, A, E, C, B C) B, A, E, C, D
D) B, C, E, A, C E) B, E, A, C, D

7.

9132 → 5450
6242 → 9648
1234 → 2421
3521 → ?

- A) 3521 B) 3024 C) 2430
D) 2346 E) 4623

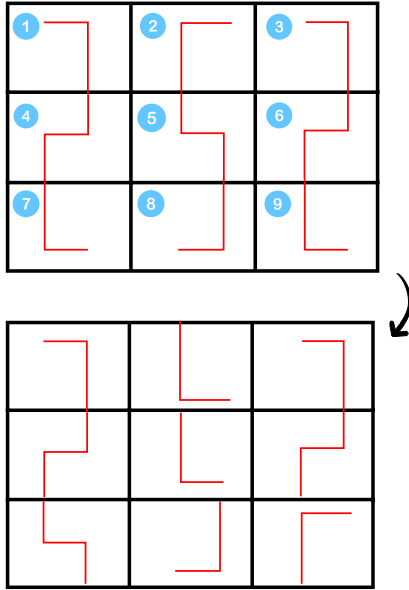
8.



- A) B) C) D) E)

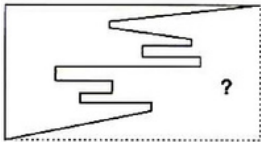
YÖS ÖĞRENCİSİ

9.



- A) $2 \rightarrow 9$ B) $3 \rightarrow 1$ C) $5 \rightarrow 9$
 $5 \rightarrow 7$ $6 \rightarrow 7$ $2 \rightarrow 7$
- D) $9 \rightarrow 1$ E) $2 \rightarrow 9$
 $8 \rightarrow 7$ $1 \rightarrow 4$

10.



- A) B) C) D) E)

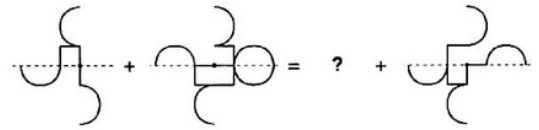
11.

					54
					68
					85
					B
					76
57	90	102	64	A	

$A + B = ?$

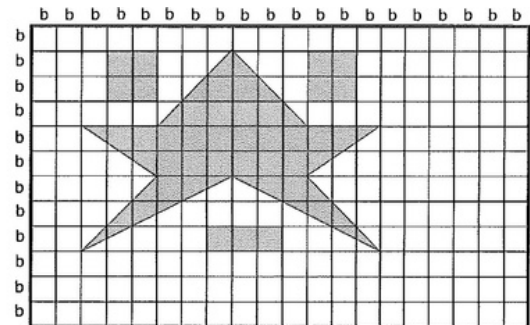
- A) 90 B) 141 C) 100 D) 104 E) 102

12.



- A) B) C) D) E)

13.



\Rightarrow Taralı alan/The shaded area = ? b^2

- A) 34 B) 35 C) 36 D) 37 E) 47

14. $(a,b,c,d) \in \mathbb{Z}^+$

+	a	b	c	d
a				
b			68	
c				
d	84			

x	a	b	c	d
a				
b			c^4	
c				
d	d^5			

$\Rightarrow c + d = ?$

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

15.

I.

3	4
5	9
4	7

 $\xrightarrow{\star}$

7	12
14	45
11	28

 $\xrightarrow{\blacksquare}$

26	31
73	104
50	67

II.

2	6
1	4
5	3

 $\xrightarrow{\blacksquare}$

10	14
6	9
13	11

 $\xrightarrow{\star}$

24	140
15	54
24	143

III.

A	B
B	2
6	A

 $\xrightarrow{\star}$

	20
6	
	C

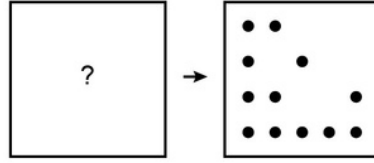
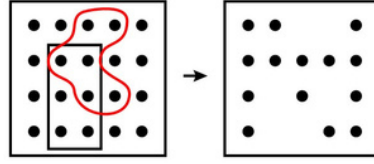
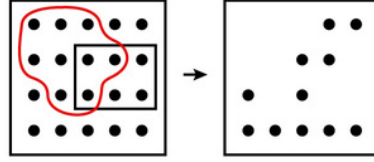
 $\xrightarrow{\blacksquare}$

38	
	D
52	

$\Rightarrow A + B + C + D = ?$

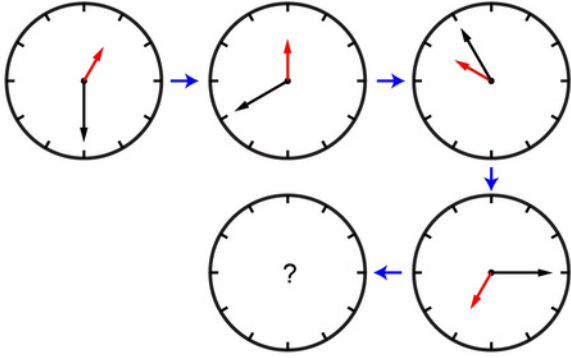
- A) 58 B) 61 C) 63 D) 66 E) 69

16.



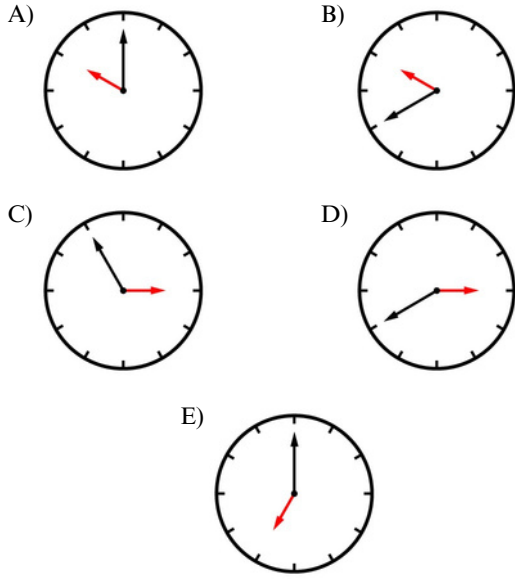
- A)
- B)
- C)
- D)
- E)

17.

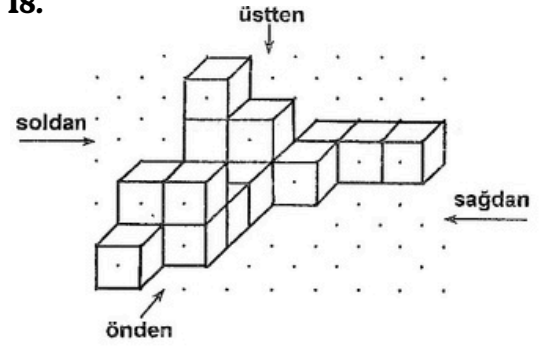


Yukarıdaki şekil dizisinde soru işaretinin yerine getirilmesi gereken şekil aşağıdakilerden hangisidir?

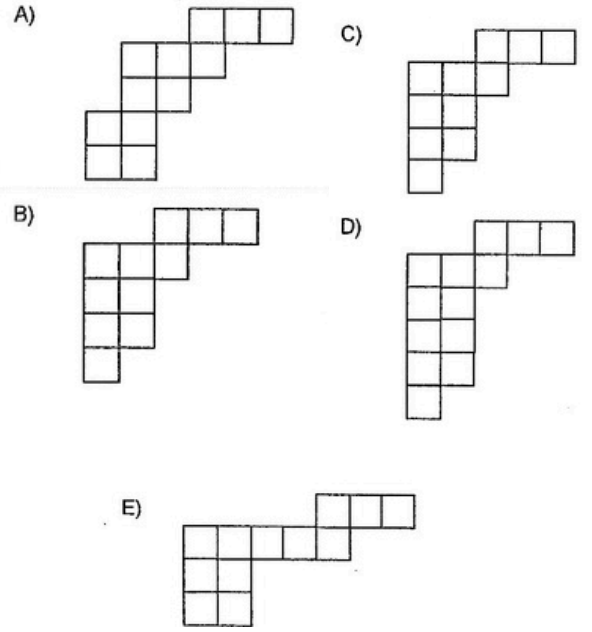
أوجد الشكل الذي يجب أن يحل محل علامة استفهام (?) في سلسلة أشكال الميمنة.



18.



Birim küplerden oluşan şeklin üsten görünüşü aşağıdakilerden hangisidir?



19.

$$\frac{7^4 - 3^4}{17^2 - 12^2} = ?$$

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

20. $\frac{6^6 - 8^2 \cdot 9^2}{4^4 \cdot 3^4} = ?$

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

21. $\left. \begin{array}{l} 2^{x-y} = 5 \\ 4^{x+y} = 64 \end{array} \right\} 4^x = ?$

- A) 36 B) 37 C) 38 D) 40 E) 42

22. $\frac{x^3 - 16x}{x^2 - 2x - 8} \cdot \frac{x^2 + x - 2}{x^3 + 5x^2 + 4x} = ?$

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

23. $3\sqrt{x} - \sqrt{3y} = 3$

$$\sqrt{3xy} - x - y = -1$$

$$\Rightarrow x - y = ?$$

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

24. $(a, b, c) \in \mathbb{Z}$

$$\left. \begin{array}{l} a - b + c = 0 \\ a - c = 2 \\ b + c = 14 \end{array} \right\} a + b + c = ?$$

- A) 19 B) 20 C) 21 D) 22 E) 32

25. $\frac{1}{b} < \frac{1}{a} < 0 < \frac{b-a}{c}$

$$a, b, c \Rightarrow ? < ? < ?$$

- A) $b < c < a$ B) $a < c < b$ C) $c < b < a$
D) $b < a < c$ E) $a < b < c$

$$26. \frac{\sqrt{x+1} + \sqrt{4x^2 + 4x}}{4x-1} = 1$$

$$\Rightarrow x = ?$$

- A) 16 B) 20 C) 4 D) 64 E) 32

$$28. \frac{x}{y} = x + 4$$

$$x \cdot y - x - y = 1$$

$$x \cdot y = ?$$

- A) $\frac{-1}{15}$ B) $\frac{-1}{5}$ C) $\frac{1}{5}$ D) $\frac{-2}{3}$ E) $\frac{2}{15}$

$$27. \left. \begin{array}{l} 0 < b < 7 \\ -30 < a < -6 \\ (2a+1) \cdot (b-7) = 55 \end{array} \right\} a + b = ?$$

- A) -22 B) 20 C) -21 D) -23 E) 32

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$$29. (\sqrt{3} - \sqrt{2}) \cdot \left(\frac{4\sqrt{3}}{\sqrt{6} - \sqrt{2}} - \frac{3}{\sqrt{2} + 1} \right) = ?$$

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

30. $x - y = 1$
 $z - t = -2$
 $\Rightarrow x \cdot z + y \cdot t - y \cdot z - x \cdot t - y + x - z + t = ?$
 A) -2 B) -1 C) 0 D) 1 E) 2

31. $\frac{10!}{7!} \cdot \left(\frac{8!}{10!} + \frac{3!}{5!} \right) = ?$
 A) 44 B) 48 C) 50 D) 54 E) 56

32. $(M, K, L) \in \mathbb{N}^+$

$$\begin{array}{r} \text{KKL} \\ + \text{KMK} \\ \dots\dots\dots \\ \text{MM1} \\ \Rightarrow \mathbf{K \cdot L} = ? \end{array}$$

- A) 63 B) 20 C) 36 D) 28 E) 32

33. $a < 0 < b < 2 < c$

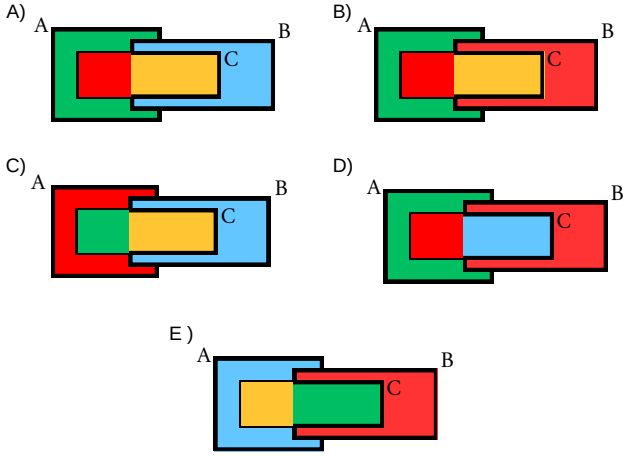
$$|c - b| + |a - b| + |2 - c - b| = ?$$

- A) $2b - 2a - 2$ B) $2c - 2a - 2$ C) $2c - a + b - 2$
 D) $-2b - 2$ E) -2

34.

- $(A \cap C) - B$
- $(B \cap A) - C$
- $C - [(A \cap C) - B]$
- $A - (B \cup C)$

Verilen bilgilere göre aşağıdakilerden hangisi doğrudur?



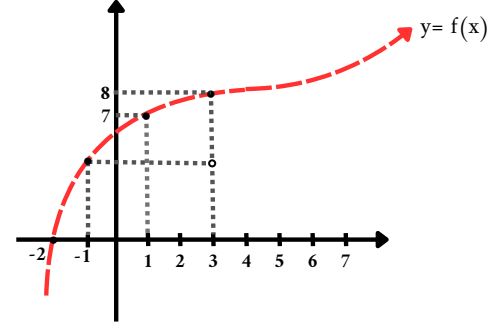
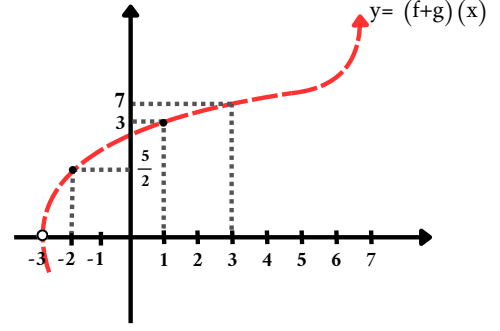
35.

$$f(1-x) + f\left(\frac{1}{x}\right) = x$$

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

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

36.



$$\bullet g(x+9) + g(x) = \frac{1}{23}$$

$$\bullet g(f(1)) + f(g(3)) = ?$$

- A) $\frac{5}{3}$ B) $\frac{1}{23}$ C) $\frac{71}{46}$ D) $\frac{-113}{23}$ E) $\frac{-113}{46}$

37.

$$f(x) = x^2 - 8x + 15$$

$$h(x) \cdot g(x) = f(x) - g(x)$$

$$h(4) = f(3)$$

$$\Rightarrow g(4) = ?$$

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

38. $P(x) = x^2 + 2x - a$

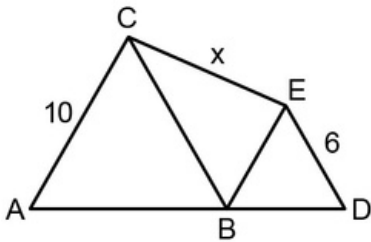
$$P(x_1) = P(x_2) = 0$$

$$P(-x_1) = P\left(\frac{x_2}{2}\right) = a$$

$$\Rightarrow P(2x_2) = ?$$

- A)37 B)38 C)39 D)40 E)41

39.



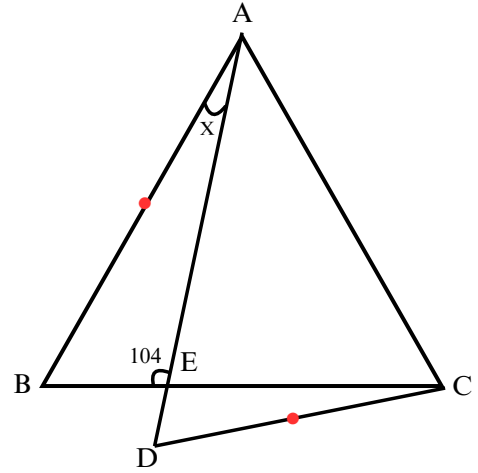
- $B \in [AD]$
 $|AC| = 10$
 $|DE| = 6$
 $|CE| = x$

ABC ve BDE birer eşkenar üçgendir.

$$\Rightarrow x = ?$$

- A) 8 B) $2\sqrt{17}$ C) $6\sqrt{2}$
D) $2\sqrt{19}$ E) $4\sqrt{5}$

40.



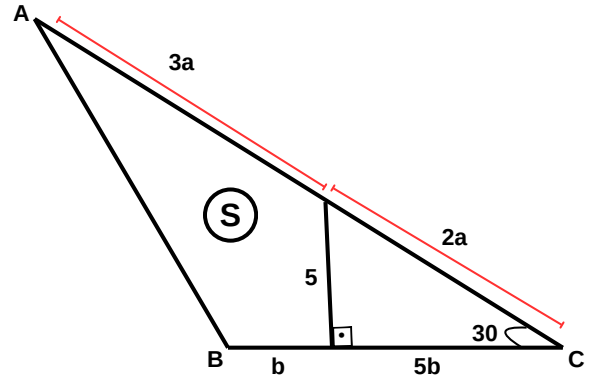
$$|AD| = |BC| = |AB| = |DC|$$

$$\Rightarrow x = ?$$

- A)29 B)30 C)31 D)32 E)33

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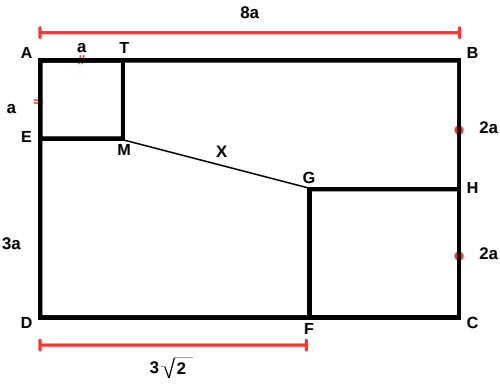
41.



$$\Rightarrow S = ?$$

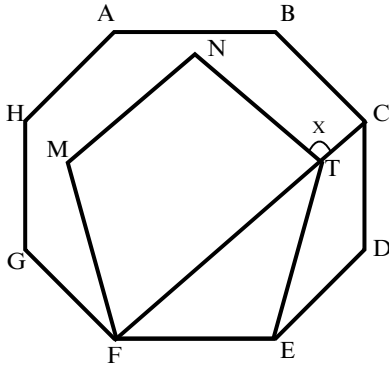
- A) $25\sqrt{3}$ B) 25 C) $20\sqrt{3}$ D) $\frac{25\sqrt{3}}{2}$ E) $45\sqrt{3}$

42.


 $\Rightarrow x = ?$

- A) $\sqrt{13}$ B) $\sqrt{12}$ C) $\sqrt{10}$ D) $\sqrt{11}$ E) $\sqrt{15}$

43.

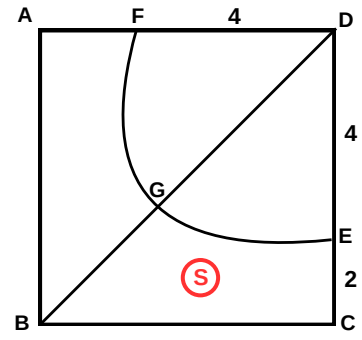


ABCDEFGH, düzgün sekizgen

 $\Rightarrow x = ?$

- A) 107 B) 108 C) 109 D) 110 E) 111

44.



ABCD karedir

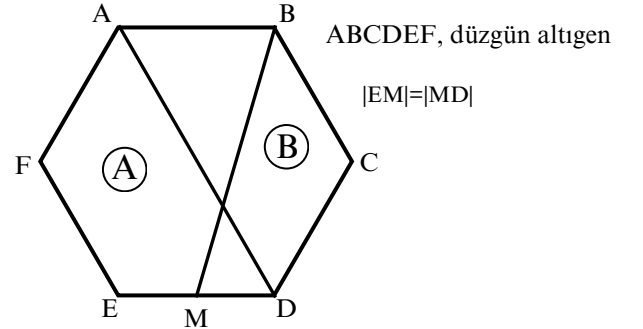
D dairenin merkezidir

 $\Rightarrow S = ?$

- A) $18 - 4\pi$ B) $36 - 4\pi$ C) 36 D) $10 - 2\pi$ E) 18

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45.


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

- A) $\frac{8}{5}$ B) $\frac{5}{8}$ C) $\frac{1}{5}$ D) $\frac{1}{8}$ E) $\frac{3}{8}$