

2024-TR-YÖS/1

ÇIKMIŞ SORULAR

YÖS ÖĞRENCİSİ

45 SORU

MATH + IQ + GEOMETRİ



• أسماء الطلاب الذين ساهموا في تجميع الأسئلة :

- بيان نجار
- زلفى مبالغ
- عبادة
- زاهر محمد
- احمد الحسن
- عمر عمر
- ابراهيم صدي
- يارا بقره جي

جزاكم الله كل الخير لا تنسوهم من دعائكم

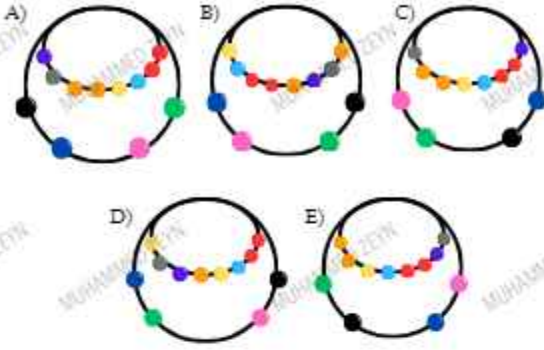


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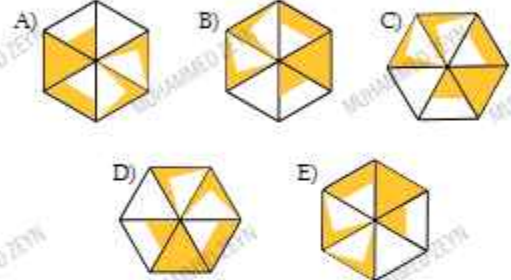
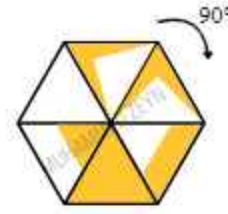


[YÖS ÖĞRENCİSİ](#)

1. Aşağıdakilerden hangisi farklıdır



3.



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				

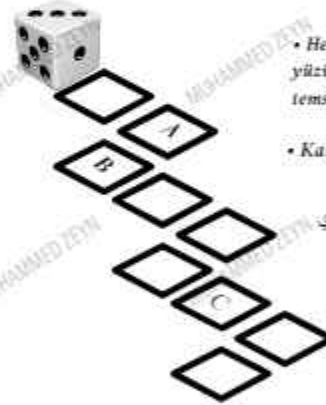
C 15 30 41

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 E) 100

4.



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

• Karşılıklı yüzlerin toplamı 7'ye eşittir

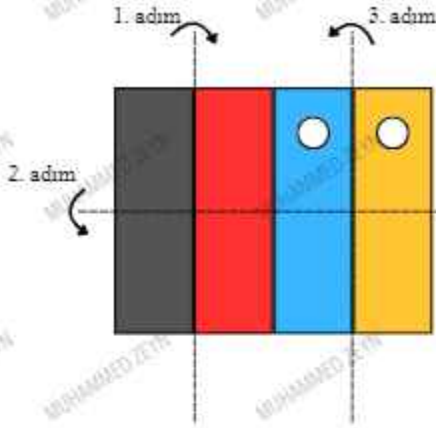
• كل حرف يعبر عن عدد النقاط السوداء الموجودة في الوجه العلوي من المكعب الذي يقف فوقه

• مجموع الأوجه المتقابلة يساوي 7

⇒ A+B+C=?

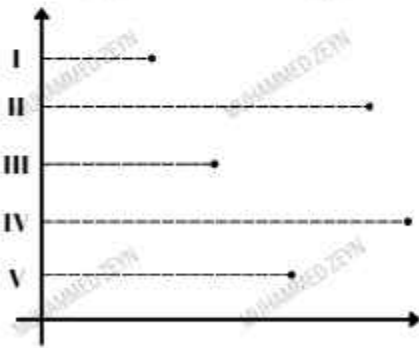
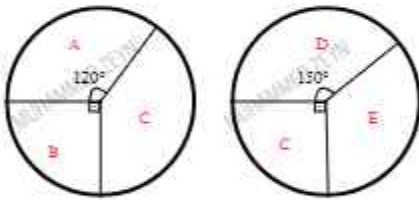
- A) 6 B) 7 C) 8 D) 9 E) 12

5.



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

6.



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

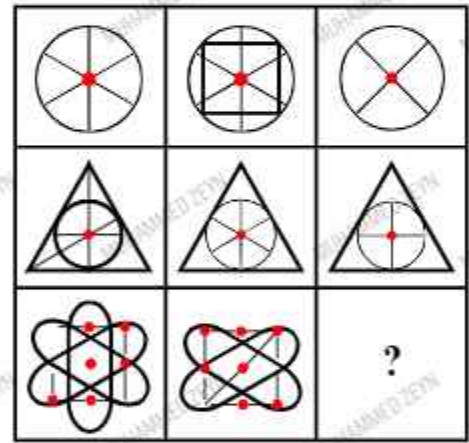
- A) B, E, A, D, C B) D, A, E, C, B C) B, A, E, C, D
D) B, C, E, A, C E) B, E, A, C, D

7.

9132 \rightarrow 5450
6242 \rightarrow 9648
1234 \rightarrow 2421
3521 \rightarrow ?

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

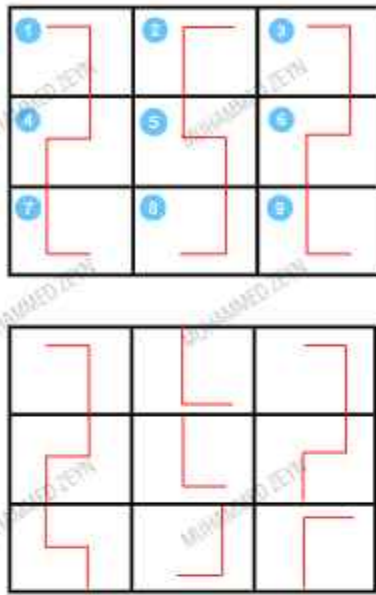
8.



- A) B) C)
D) E)

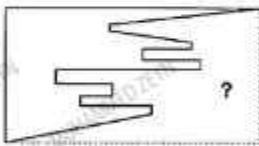
YÖS ÖĞRENCİSİ

9.



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

10.



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

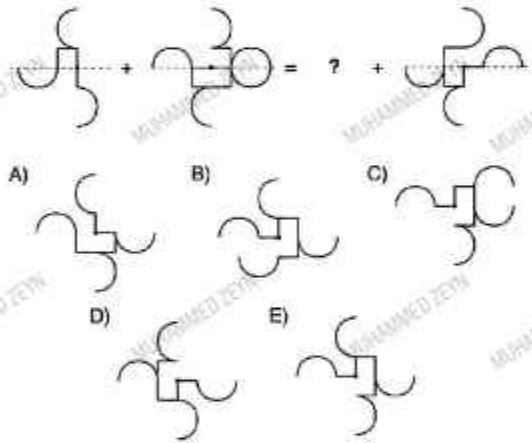
11.

					54
					68
					85
					B
					76
57	90	102	64	A	

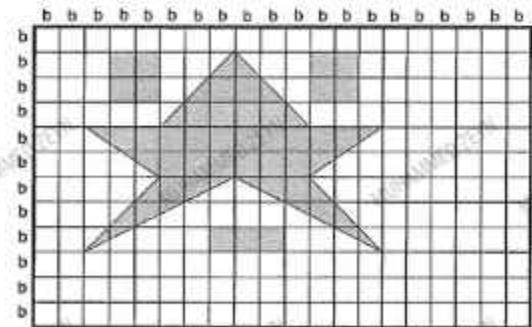
$A + B = ?$

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

12.



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

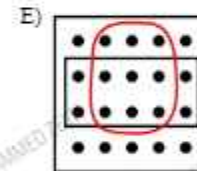
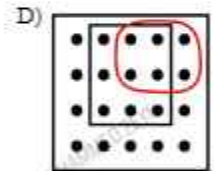
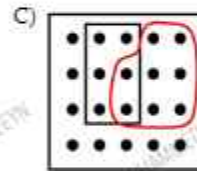
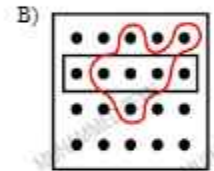
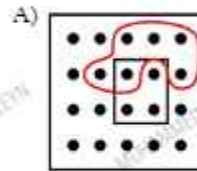
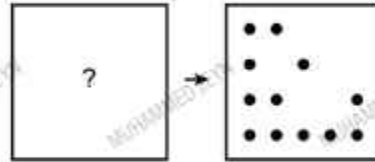
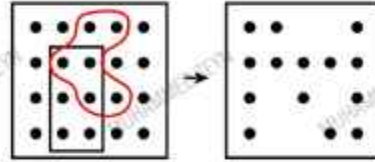
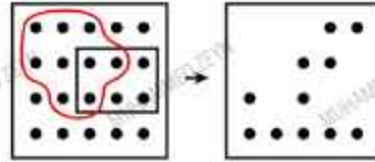
 $\xrightarrow{\blacksquare}$

38	
	D
52	

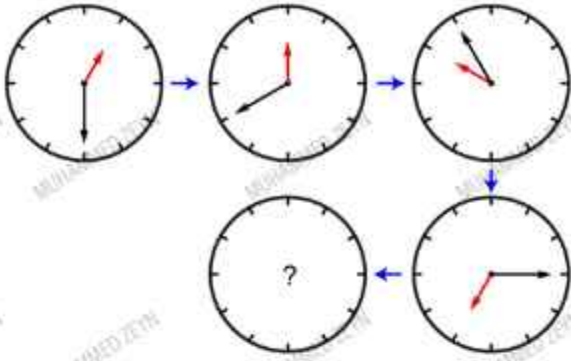
$\Rightarrow A + B + C + D = ?$

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

16.



17.



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

أوجد الشكل الذي يجبان حلهما مع استقمام (٢) فيسلسلة أشكال المدينة.

A)



B)



C)



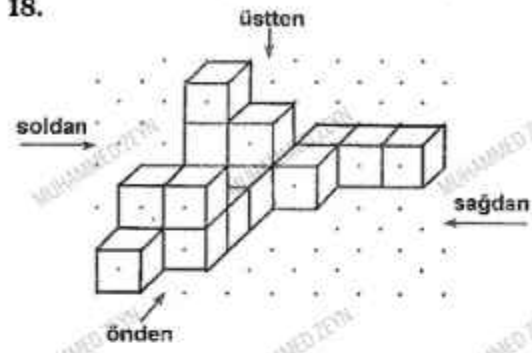
D)



E)

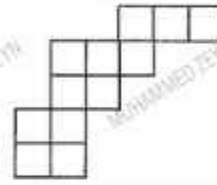


18.



Birim küplerden oluşan şeklin üstten görünüşü aşağıdakilerden hangisidir?

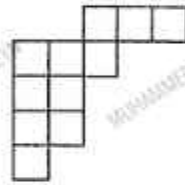
A)



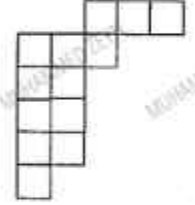
C)



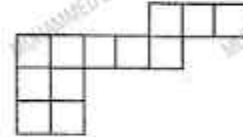
B)



D)



E)



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

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

$$a - b + c = 0$$

$$a - c = 2$$

$$b + c = 14$$

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

- 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

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

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

KKL
 + KMK

MM1

$\Rightarrow K \cdot L = ?$

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

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

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

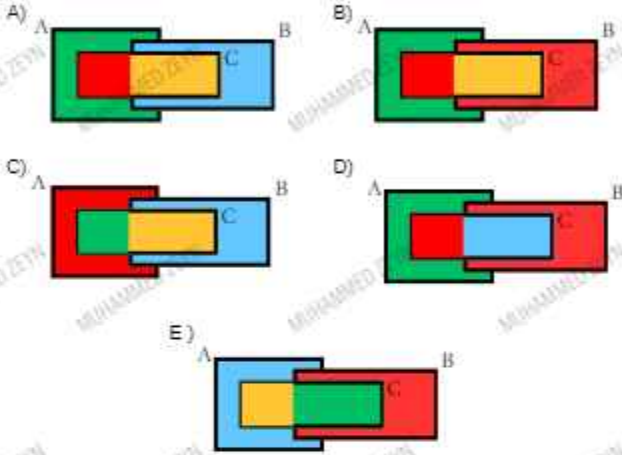
A) $2b - 2a - 2$ B) $2c - 2a - 2$ C) $2c - a + b - 2$

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?



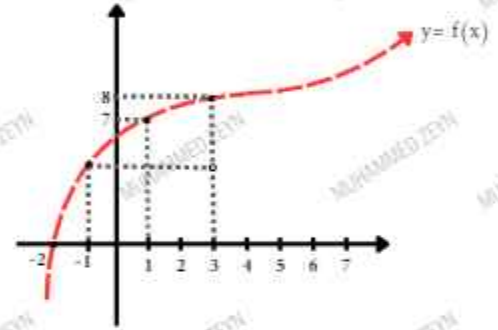
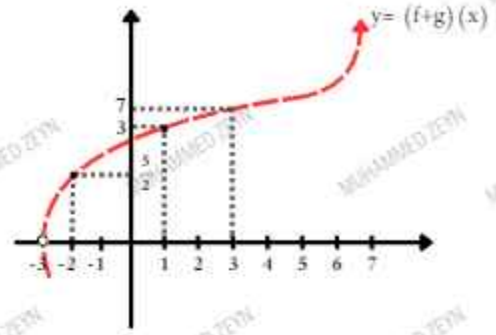
35.

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

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

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

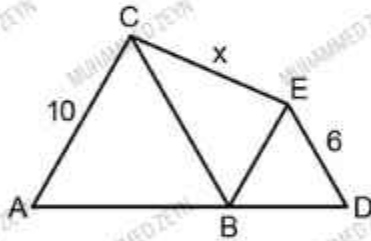
$P(x_1) = P(x_2) = 0$

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

$\Rightarrow P(2x_2) = ?$

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

39.



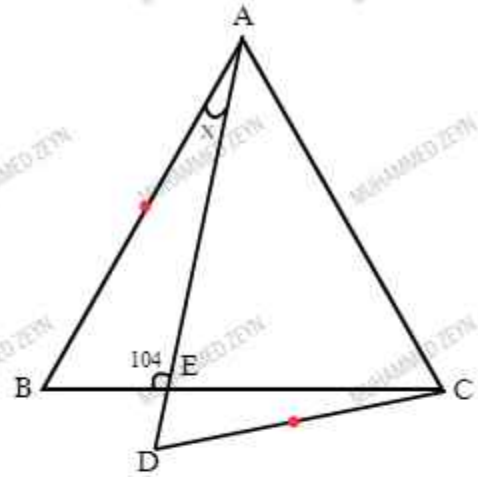
- $B \in [AD]$
 $|AC| = 10$
 $|DE| = 6$
 $|CE| = x$

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.

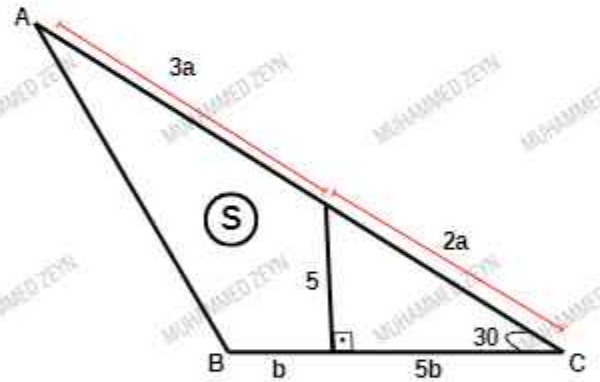


$|AD| = |BC| = |AB| = |DC|$

$\Rightarrow x = ?$

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

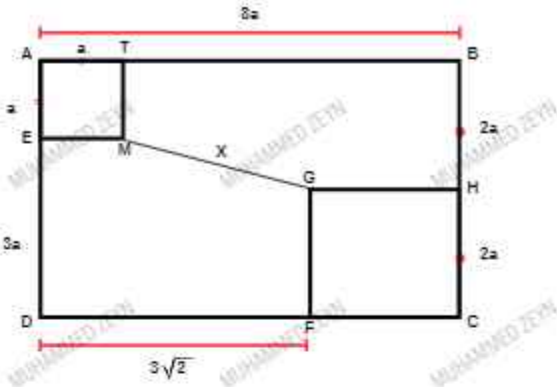
41.



$\Rightarrow S = ?$

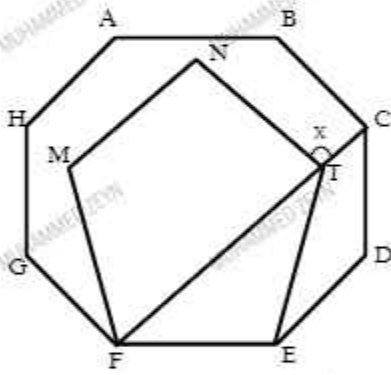
- A) $25\sqrt{3}$ B) 25 C) $20\sqrt{3}$ D) $\frac{25\sqrt{3}}{2}$ E) $45\sqrt{3}$

42.

 $\Rightarrow x = ?$

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

43.

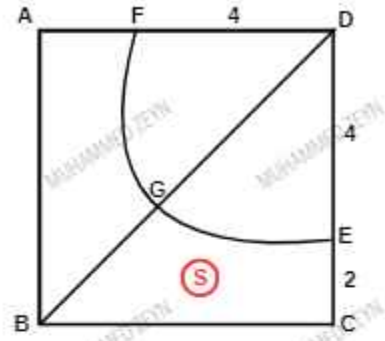


ABCDEFGH, düzgün sekizgen

 $\Rightarrow x = ?$

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

44.



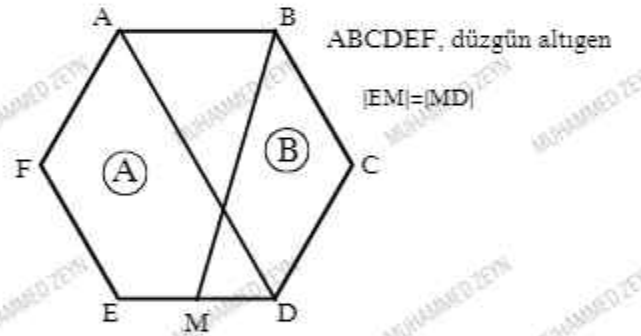
ABCD karedir

D dairenin merkezidir

 $\Rightarrow S = ?$

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

45.

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

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