



# ULUSLARARASI ŞAMPIYONLAR TR YÖS DENEMESİ 2

## ADAYIN/ BAŞVURU SAHİBİ

ADI/İSİM: .....

SOYADI/SURNAME: .....

ADAY NUMARASI / CANDIDATE NUMBER: .....

- 1.Bu testte 80 soru vardır.
- 2.Bu test için verilen cevaplama süresi 100 dakikadır.
- 3.Bu testlerdeki her sorunun bir tek doğru cevabı vardır. Bir soru için birden çok cevap yeri işaretlenmişse, o soru yanlış cevaplanmış sayılacaktır.
- 4.Cevaplarınızı koyu siyah ve yumuşak bir KURŞUN KALEMLE işaretleyiniz.İşaretlerinizi cevap kutucuğunun dışına taşırmayınız. Tükenmez veya dolma kalem kullanmayınız.
- 5.Bu testler puanlanırken, doğru cevaplarınız sayısından yanlış cevaplarınızın sayısının dörtte biri düşülecek ve kalan sayı ham puanınız olacaktır.
- 6.Cevap kâğıdınızı buruşturmayınız, katlamayınız ve üzerine gereksiz hiçbir işaret koymayınız. Değiştirmek istediğiniz bir cevabı, yumuşak bir silgiyle, temizce siliniz ve yeni cevabınızı işaretlemeyi unutmayınız.

- 1.Bu test 80 sorudan oluşmaktadır.
- 2.Bu test için tanınan süre 100 dakikadır.
- 3.Bu testlerde her sorunun tek bir doğru cevabı vardır. Birden fazla alternatifi işaretlenmesi durumunda o cevap otomatik olarak yanlış sayılacaktır.
- 4.Cevap kağıdına işaretleme yapmak için yumuşak, SİYAH KALEM kullanmalısınız. Seçtiğiniz cevap için daireyi tamamen doldurunuz ancak işaretinizin daire sınırlarını aşmamasına dikkat ediniz. Başka türde kalem kullanmayın.
- 5.Sınavların puanlamasında her dört yanlış cevap için bir doğru cevap düşülecek, geri kalan ham puan olacaktır.
- 6.Cevap kağıdını düz tutun ve katlamayın. Üzerine gereksiz işaretler yapmayın. Bir yanıtı değiştirmek isterseniz, çok yumuşak bir silgiyle dikkatlice tamamen silin. Yeni cevabınızı işaretlemeyi unutmayın.

ŞAMPIYONLAR DENEMESİ

TOURAN ACADEMY

- Bu testte Sayısal Yetenek alanına ait 40 adet örnek soru vardır.
- Sınav süresi 50 dakikadır.

1.

A) 0    B) 5    C) 6    D) 7    E) 8

3.

★	△	□
△	△	□
+	+	⌘
♥	★	▽

★	□	△
★	★	□
-	-	₺
♥	★	□

1	0	0
0	0	1
0	0	0
?	?	?

A) 

1	0	1
---	---	---

    B) 

1	1	1
---	---	---

    C) 

0	0	0
---	---	---

D) 

0	0	1
---	---	---

    E) 

1	1	0
---	---	---

2.

15 ←	2	0	1	3	4	5	19 ↑
	3					2	
	5					1	
	5					1	
	1					4	
	4	A	0	1	B	6	⇒ 21
	↓						20 ↓

⇒  $\max(A \cdot B) = ?$

A) 25    B) 28    C) 32    D) 40    E) 56

4.

⇒  $m = ?$

A) 23    B) 24    C) 25    D) 26    E) 28

5.  $m \text{ C } n = m \cdot n$

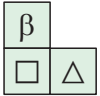
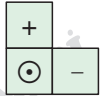



$m \star n = m + n$

$\Rightarrow (1 \text{ C } 9) \star (2 \text{ C } 3) = ?$

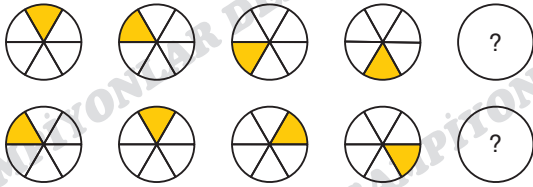
- A) 13    B) 15    C) 17    D) 19    E) 21






6.

$\alpha$	?	$\odot$	$\beta$	$\square$	$\square$	-	$\heartsuit$
$\odot$	?	?	$\triangle$	+	+	-	$\heartsuit$
$\triangle$	$\alpha$	$\beta$	$\odot$	+	$\alpha$	$\heartsuit$	-

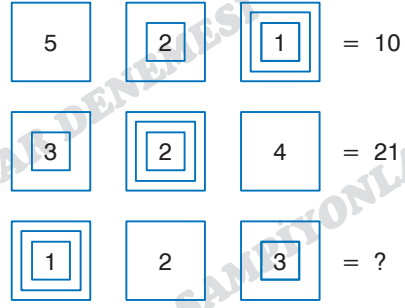
- A) 
- B) 
- C) 
- D) 
- E) 

7.



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

8.

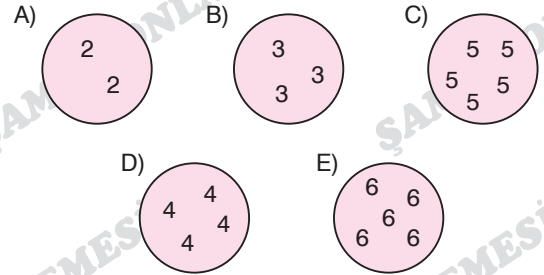


- A) 8    B) 9    C) 10    D) 11    E) 12

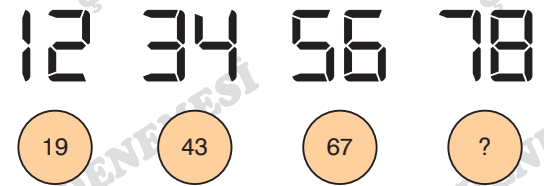
9. Aşağıdakilerden hangisi diğerlerinden farklıdır?

Which of the following is different from the others?

Что из перечисленного отличается от остальных?



10.



- A) 58    B) 68    C) 78    D) 88    E) 98

11.

5	2	-	+	-	-	4	3
3	4					2	3
6	8	+	+	-	-	7	9
2	4					1	3
1	2	-	-	-	+	A	B
3	4					C	D

$$\Rightarrow \frac{C + D}{A - B} = ?$$

- A) -8    B) -7    C) 0    D) 7    E) 8

12.



- A) 15:00    B) 15:01    C) 15:12  
D) 15:15    E) 15:28

13.

□	△	★
★	□	?
△	★	□

- A)    B)    C)    D)    E)

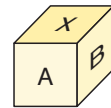
14.

6		8
	4	8
	8	0
?		10

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

15.

2			
5	3	6	
		1	4



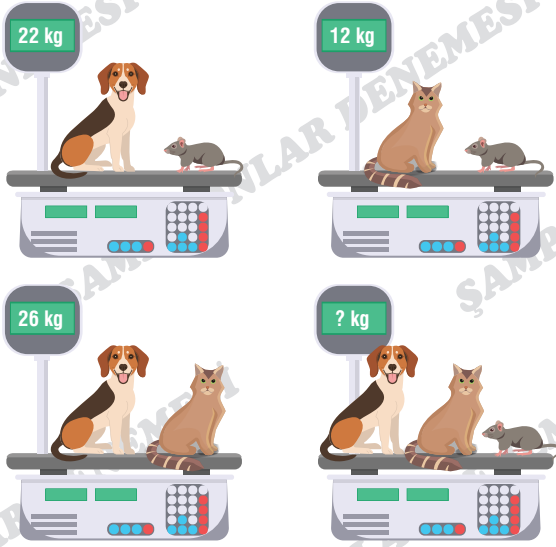
$$A + B = 6$$

$$\Rightarrow \sum X = ?$$

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

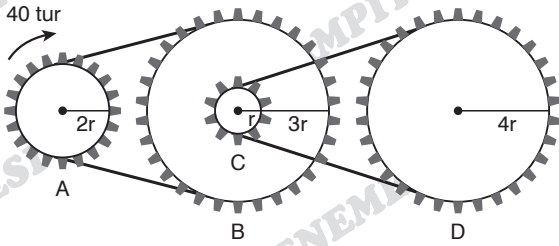
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16.



- A) 38 B) 36 C) 34 D) 32 E) 30

17.



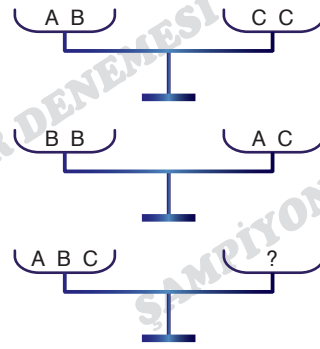
A dişlisi 40 tur dönerse D dişlisi kaç tur döner?

If gear A rotates 40 revolutions, how many revolutions does gear D rotate?

Если шестерня А делает 40 оборотов, на сколько оборотов сделает шестерня D?

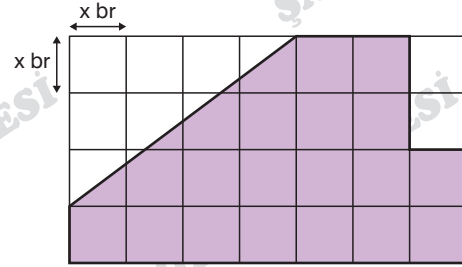
- A) 4 B) 5 C) 6 D) 8 E) 10

18.



- A) AA B) BB C) CC D) AB E) CCC

19.



⇒ Çevre (Perimeter) = x ?

- A) 17 B) 18 C) 19 D) 20 E) 21

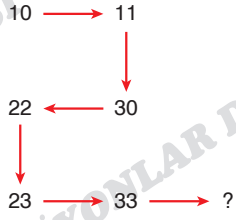
20.

Ş	A	M	P	İ	Y	O	N	L	A	R
0	1	2	3	4	5	6	7	8	1	9

⇒ PİYANO = ?

- A) 345189 B) 345176 C) 435176  
D) 123456 E) 213460

21.



- A) 48    B) 50    C) 52    D) 54    E) 58

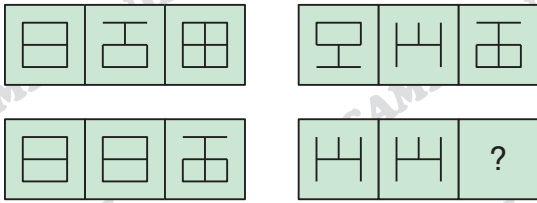
22.

2	3	4	3	4	6
6	2	3	6	9	3
8	2	4	A	12	3
40	8	B	10	5	1

⇒  $A + B = ?$

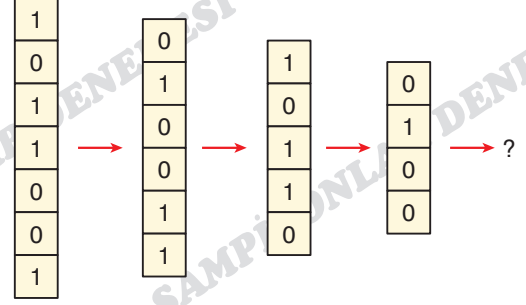
- A) 10    B) 11    C) 14    D) 15    E) 16

23.



- A)    B)    C)    D)    E)

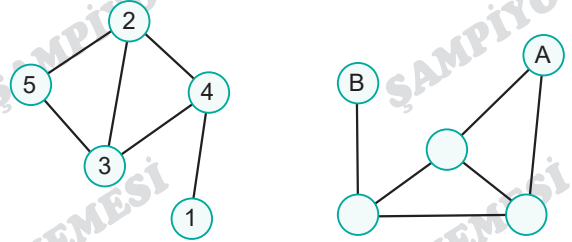
24.



- A)    B)    C)    D)    E)

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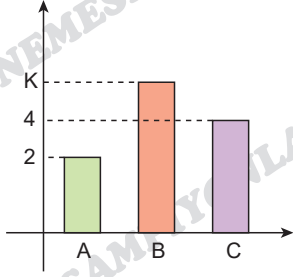
25.



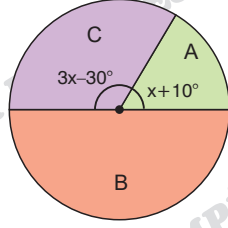
⇒  $(A, B) = ?$

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

26.


 $\Rightarrow K = ?$ 

- A)  $\frac{9}{2}$     B) 5    C) 6    D) 7    E) 8

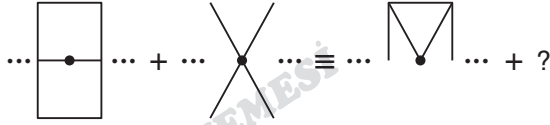


29.



- A) SIVASSPOR    B) REAL MADRID  
C) KARABAĞ    D) PERSEPOLİS  
E) AL HİLAL

27.



- A)    B)    C)    D)    E)

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30.

$\sqrt{\quad}$	16	3	67
33	7	6	A
9	5	-	B
11	-	-	-

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

28.

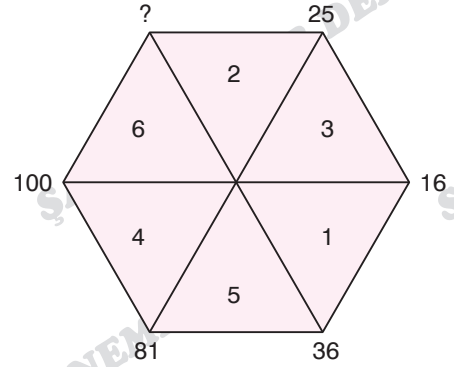
$$\begin{array}{r} ABC \\ ABC \\ ABC \\ + \\ \hline 1428 \end{array}$$

$$\begin{array}{r} DE \\ DE \\ + \\ \hline 24 \end{array}$$

 $\Rightarrow \frac{A + B + C + D}{E} = ?$ 

- A) 10    B) 9    C) 8    D) 2    E) 1

31.



- A) 25    B) 49    C) 64    D) 81    E) 100



32.  $18 \cdot 81 = 81$

$14 \cdot 53 = 40$

$12 \cdot 99 = 54$

$20 \cdot 24 = ?$

- A) 58    B) 34    C) 15    D) 12    E) 0

33.

■	×	+	×	△	■	+
○	△	÷	+	■	△	÷
×	○	÷	○	■	○	÷
△	■	○	△	+	△	÷
■	×	÷	×	△	■	+
○	△	■	×	÷	△	■
÷	+	■	÷	×	×	○

I.

A	B
B	A

$A = \times$

$B = \div$

II.

B	C
D	B

$C = ?$

$D = ?$

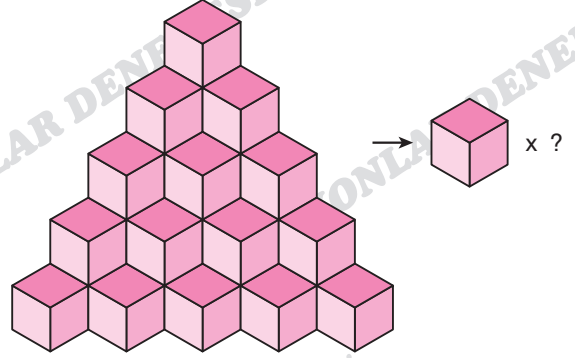
C

- A) ■  
B) +  
C) ×  
D) ○  
E) +

D

- △  
○  
■  
○

34.



Yukarıdaki şekil kaç tane küpten oluşmaktadır?

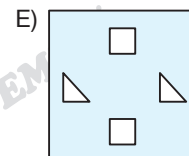
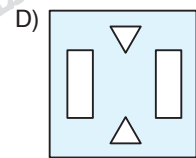
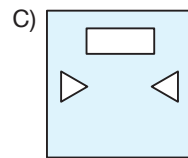
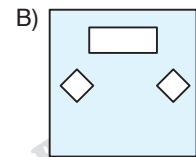
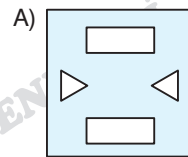
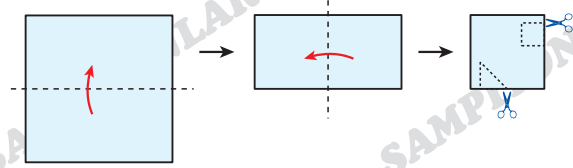
How many cubes are there in the figure above?

Из скольких кубиков состоит фигура выше?

- A) 25    B) 27    C) 30    D) 32    E) 35

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35.



36.

13				
1	0	1	1	1
1	0	0	0	1
1	0	1	1	1
1	0	0	0	1
1	0	1	1	1

21				
1	1	1	0	1
0	0	1	0	1
1	1	1	0	1
1	0	0	0	1
1	1	1	0	1

?				
1	0	1	0	1
1	0	1	0	1
1	0	1	0	1
1	0	1	0	1
1	0	1	0	1

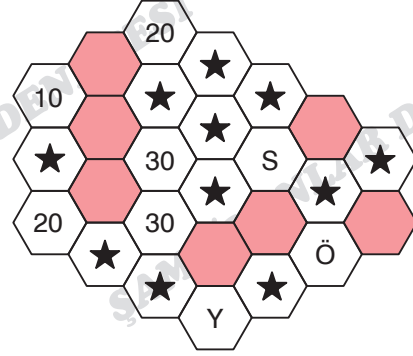
- A) 11    B) 12    C) 32    D) 111    E) 211

37.

HECE
DEDE
☒ : ☉ ◆
?

- A) 14 : 14    B) 08 : 28    C) 10 : 10  
D) 00 : 08    E) 12 : 34

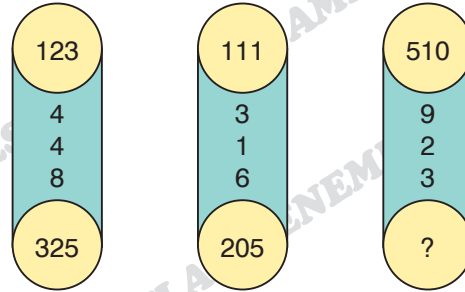
38.



$$\Rightarrow Y + \ddot{O} + S = ?$$

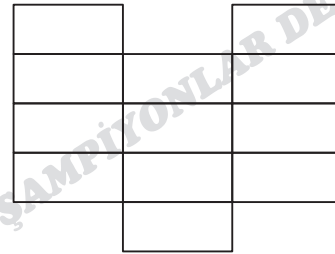
- A) 60    B) 70    C) 80    D) 90    E) 100

39.



- A) 413    B) 314    C) 310  
D) 232    E) 138

40.



Yukarıdaki şekilde kaç dikdörtgen vardır?

How many rectangles are there in the figure above?

Сколько прямоугольников изображено на рисунке выше?

- A) 45    B) 48    C) 50    D) 52    E) 58

1. Bu testte Temel Matematik alanına ait 40 adet örnek soru vardır.

2. Sınav süresi 50 dakikadır.

1.  $\left(2 + \frac{3}{7}\right) \cdot \left(1 - \frac{1}{17}\right) = ?$

- A)  $\frac{7}{16}$  B) 1 C)  $\frac{2}{3}$  D)  $\frac{3}{2}$  E)  $\frac{16}{7}$

2.  $\frac{(\sqrt{5} - \sqrt{2}) \cdot (\sqrt{5} + \sqrt{2})}{\sqrt{3}} = \sqrt{x}$

$\Rightarrow \sqrt{x + 13} = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

3.  $\frac{8 \cdot 7 \cdot 6! + 8 \cdot 7! + 8!}{7! + 7 \cdot 6! + 7 \cdot 6 \cdot 5!} = \frac{x!}{3}$

$\Rightarrow x = ?$

- A) 2 B) 3 C) 4 D) 6 E) 24

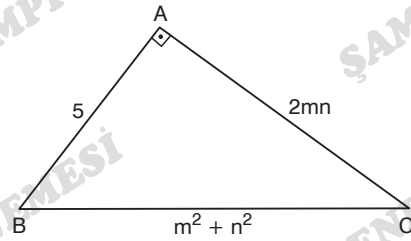
4.  $\frac{2^{50} - 2^{49} - 2^{48} - 2^{47} - 2^{46}}{2^{47} - 2^{46} - 2^{45} - 2^{44} - 2^{43}} = 4^x$

$\Rightarrow x = ?$

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

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5.  $m, n \in \mathbb{N}$



$\Rightarrow |AC| = ?$

- A) 12 B) 10 C) 8 D) 6 E) 3

$$6. \begin{cases} 2x + 3y = 7 - z \\ 3x + 2y = 3 + z \end{cases}$$

$$\begin{cases} 4x - 5y = 13 \\ 6y - 3x = k \end{cases}$$

$$\Rightarrow k = ?$$

- A) -11    B) -10    C) -8    D) -5    E) -3

$$7. \begin{aligned} f: \mathbb{R} \rightarrow \mathbb{R} & \quad g: \mathbb{R} \rightarrow \mathbb{R} \\ f(x) = x + 3 & \quad g(x) = 2x - 5 \end{aligned}$$

$$(f \circ g)(4) = (g \circ f)(k)$$

$$\Rightarrow k = ?$$

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

$$8. \bullet \frac{1}{\sqrt{3}-\sqrt{2}} + \frac{1}{\sqrt{3}+\sqrt{2}} = x$$

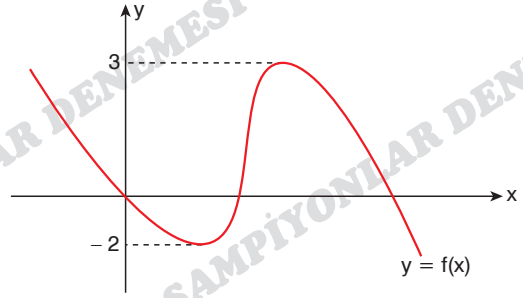
$$\bullet \frac{1}{\sqrt{3}-1} + \frac{1}{\sqrt{3}+1} = y$$

$$\bullet x + y = \sqrt{z}$$

$$\Rightarrow z = ?$$

- A)  $\sqrt{3}$     B)  $3\sqrt{3}$     C) 27    D) 48    E) 54

9.



$$f^2(x) + f(x) = 6$$

$$S.S = \{x_1, x_2, \dots, x_n\}$$

$$\Rightarrow n = ?$$

- A) 3    B) 4    C) 5    D) 6    E) 7

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$$10. f: \mathbb{R} - \{2\} \rightarrow \mathbb{R} - \{3\}$$

$$f(x) = \frac{3x+4}{x-2}$$

$$\Rightarrow f^{-1}(x) = ?$$

$$A) \frac{x-2}{3x+4}$$

$$B) \frac{3x-4}{x+2}$$

$$C) \frac{2x+4}{x-3}$$

$$D) \frac{2x-4}{x+3}$$

$$E) \frac{3x+2}{x-4}$$

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

$$|x - a| = b$$

$$\prod x = 2024 \cdot 2026$$

$$\Rightarrow a \cdot b = ?$$

- A) 2025      B) 2027      C) 2029  
D) 2030      E) 2050

12. 
$$\frac{a^3 - 3a^2b + 3ab^2 - b^3}{a^2 - 2ab + b^2} \cdot \frac{a^3 + 3a^2b + 3ab^2 + b^3}{a^2 + 2ab + b^2} = ?$$

- A)  $2a + b$       B)  $2a - b$       C)  $a^2 + b^2$   
D)  $a^2 - b^2$       E) 1

13. 
$$\left. \begin{array}{l} 2^8 = x^x \\ 3^{18} = y^y \end{array} \right\} \Rightarrow \sqrt{x + y + 3} = ?$$

- A) 16      B) 8      C) 6      D) 5      E) 4

14.  $P(x) = 2x^3 + 4x - 8$

$Q(x) = 6x^8 + 5x^4 - 3x + 1$

$$\Rightarrow \text{der}[P(x) \cdot Q(x)] = ?$$

- A) 24      B) 11      C) 10      D) 8      E) 2

15. •  $n(A \setminus B) = 3$

•  $n(B \setminus A) = 7$

•  $n(A \cap B) = 5$

$$\Rightarrow n(A \cup B) = ?$$

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

16.  $\frac{x}{2} - 5 = \frac{y}{2} + 3$

$$\Rightarrow x - y = ?$$

- A) 16      B) 12      C) 8      D) 4      E) 2

17.  $M = \{x : 30 < x < 58 \quad x \in \mathbb{Z}\}$

$N = \{x : 1 < x < 34 \quad x \in \mathbb{Z}\}$

$\Rightarrow n(M \cap N) = ?$

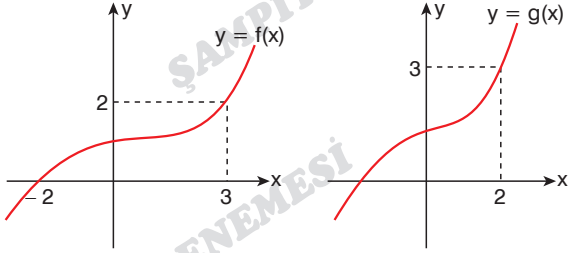
- A) 1    B) 2    C) 3    D) 4    E) 5

20.  $|x - 2!| + \sqrt{y - 4!} = 0$

$\Rightarrow x \cdot y = ?$

- A) 48    B) 24    C) 12    D) 8    E) 6

18.



$\Rightarrow (f \circ f^{-1})(8) + (g \circ g^{-1})(3) = ?$

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

21.  $1 + 2 + 3 + \dots + 32 = A$

$1 + 2 + 3 + \dots + 11 = B$

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

- A) 6    B) 7    C) 8    D) 10    E) 12

19.

$(x - 3)^2 = \frac{\sqrt{1} + \sqrt[3]{27}}{\sqrt{16}}$

$\Rightarrow \sum x = ?$

- A) 3    B) 4    C) 5    D) 6    E) 8

22. •  $P(x) = ax^2 + bx + c$

•  $P(3) = P(4) = 0$

$\Rightarrow \frac{P(9)}{P(6)} = ?$

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

23.  $\frac{a}{b} = \frac{c}{d} = \frac{e}{f} = 2$

$$2a + 3c - e = 10$$

$$\Rightarrow 3d + 2b - f = ?$$

- A) 4      B) 5      C) 6      D) 8      E) 10

24.  $(x - 2)^7 = 128$

$$(y - 3)^3 = 27$$

$$\Rightarrow x^y = ?$$

- A)  $2^{12}$       B)  $2^{10}$       C)  $2^8$       D)  $2^6$       E)  $2^4$

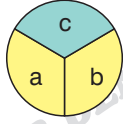
25.  $A = \{t, r, y, ö, s\}$

$$B = \{d, n, m, y, ö, s\}$$

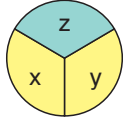
$$\Rightarrow A \setminus B = ?$$

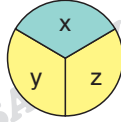
- A)  $\{t, y\}$       B)  $\{y, ö, s\}$       C)  $\{d, n, m\}$   
D)  $\{m, y, ö\}$       E)  $\{t, r\}$

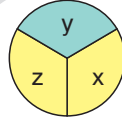
26.



$$= \frac{a \cdot b}{c} \quad x^2 + y^2 + z^2 = 47$$



$$= 3$$


$$= 4$$


$$= k$$

$$\Rightarrow k = ?$$

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

27.  $x^2 < x$

$$\Rightarrow ? < ? < ?$$

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

28.  $a, b \in \mathbb{R}$

$$22 < a + 5 < b < 26$$

$$\frac{a + b + 1}{5} \in \mathbb{Z}$$

$$\Rightarrow a + b = ?$$

- A) 22      B) 30      C) 32      D) 37      E) 44

29.  $x = 2025$

$y = 4050$

$$\Rightarrow \frac{(x-y)^3 + 4x^2y}{(x+y)^3 - 4xy^2} = ?$$

- A)
- $\frac{7}{11}$
- B)
- $\frac{2}{3}$
- C)
- $\frac{5}{7}$
- D) 1 E) 2

30.  $\{a, b, c, d, e, f, g, h, m, n\} = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

$a : b = A$

$c : d = B$

$e : f = C$

$g : h = D$

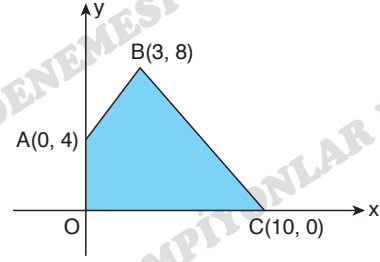
$m : n = E$

$A, B, C, D, E \in \mathbb{Z}$

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

- A) 8 B) 16 C) 17 D) 18 E) 20

31.



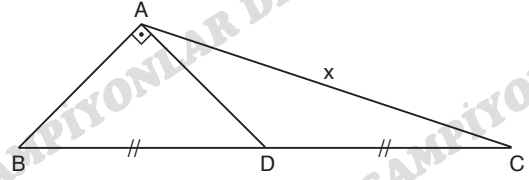
$A(0, 4), B(3, 8), C(10, 0)$

$\Rightarrow A(\text{AOCB}) = ?$

- A) 38 B) 40 C) 44 D) 46 E) 50

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32.



$m(\widehat{BAD}) = 90^\circ, |BD| = |DC|$

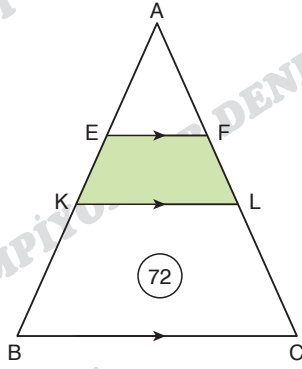
$|AD| = 8 \text{ br}, x \in \mathbb{Z}$

$\Rightarrow \min(x) = ?$

- A) 13 B) 14 C) 15 D) 16 E) 17



33.



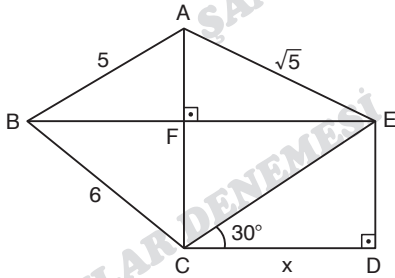
$$[EF] \parallel [KL] \parallel [BC], \quad |BK| = 2|KE| = 2|EA|$$

$$A(KBCL) = 72 \text{ br}^2$$

$$\Rightarrow A(EKLF) = ?$$

- A) 12    B) 16    C) 17    D) 18    E) 24

34.



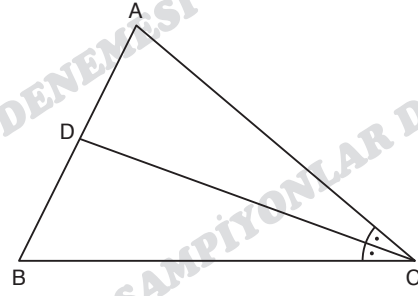
$$[AC] \perp [BE], \quad [ED] \perp [CD], \quad m(\widehat{ECD}) = 30^\circ$$

$$|AB| = 5 \text{ br}, \quad |BC| = 6 \text{ br}, \quad |AE| = \sqrt{5} \text{ br}$$

$$\Rightarrow x = ?$$

- A) 2    B) 4    C) 6    D)  $2\sqrt{3}$     E)  $4\sqrt{3}$

35.



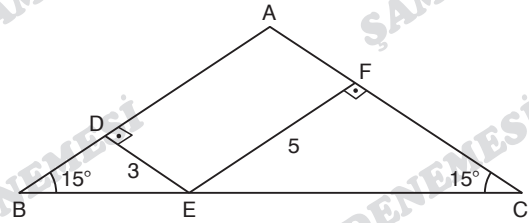
$$3|AB| = 7|AD|, \quad |BC| - |AC| = 3 \text{ br}$$

$$\Rightarrow |AC| \cdot |BC| = ?$$

- A) 36    B) 48    C) 60    D) 92    E) 108

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36.



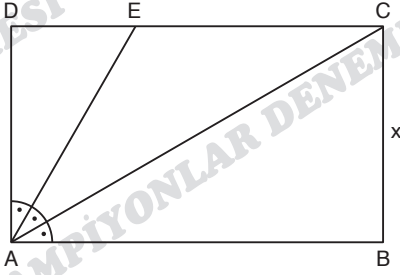
$$m(\widehat{B}) = m(\widehat{C}) = 15^\circ, \quad [ED] \perp [AB], \quad [EF] \perp [AC]$$

$$|ED| = 3 \text{ cm}, \quad |EF| = 5 \text{ cm}$$

$$\Rightarrow |AB| = ?$$

- A) 16    B) 12    C) 8    D)  $8\sqrt{2}$     E)  $8\sqrt{3}$

37.



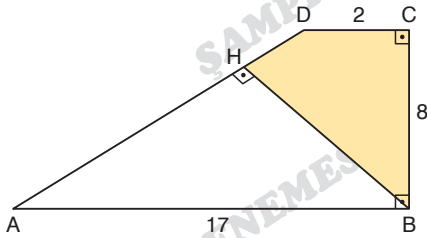
ABCD bir dikdörtgen (Rectangle Прямоугольник)

$$m(\widehat{DAE}) = m(\widehat{EAC}) = m(\widehat{CAB}), \quad |EC| = 4 \text{ br}$$

⇒  $x = ?$

- A)  $2\sqrt{3}$     B)  $4\sqrt{3}$     C) 4    D) 6    E) 8

38.



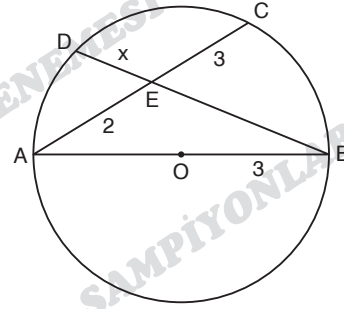
$DC \parallel AB$ ,  $[BC] \perp [AB]$ ,  $[BH] \perp [AD]$

$$|AB| = 17 \text{ cm}, \quad |BC| = 8 \text{ cm}, \quad |DC| = 2 \text{ cm}$$

⇒  $A(BCDH) = ?$

- A) 10    B) 14    C) 16    D) 18    E) 20

39.



O çemberin merkezi (Point O is the center of the circle. Точка O — центр круга.)

$[AB]$  çap (diameter диаметр)

$$[AC] \cap [BD] = E, \quad |EC| = 3 \text{ cm}$$

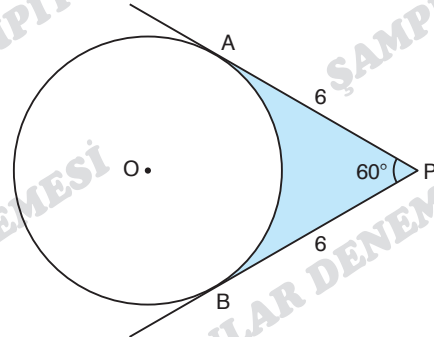
$$|AE| = 2 \text{ cm}, \quad |OB| = 3 \text{ cm}$$

⇒  $x = ?$

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

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40.



O çemberin merkezi (Point O is the center of the circle. Точка O — центр круга.)

$$|PA| = |PB| = 6, \quad m(\widehat{APB}) = 60^\circ$$

⇒ **Taralı Alan = ?**

(Shaded Area. Сканируемая область) = ?

- A)  $2\sqrt{3} - \pi$     B)  $6\sqrt{3} - 2\pi$     C)  $12\sqrt{3} - 4\pi$   
D)  $6\pi$     E)  $6\sqrt{3}$

ŞAMPIYONLAR DENEMESİ

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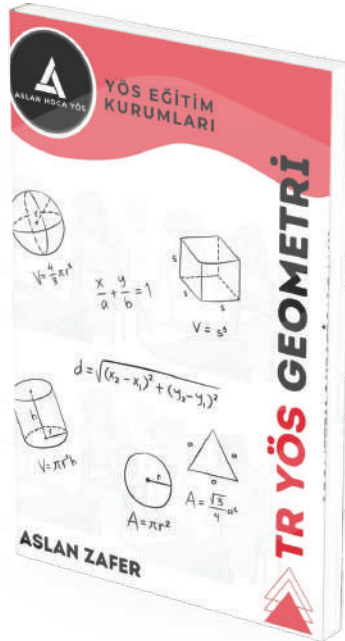
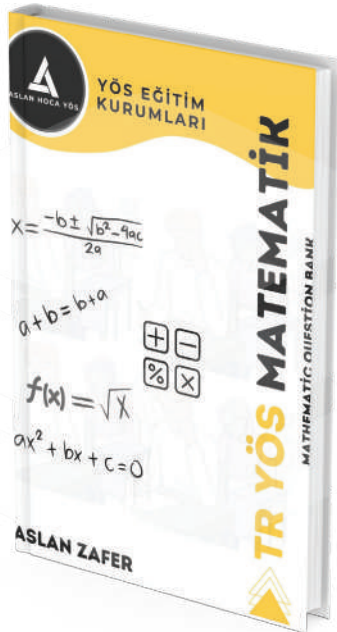


İSTANBUL



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