



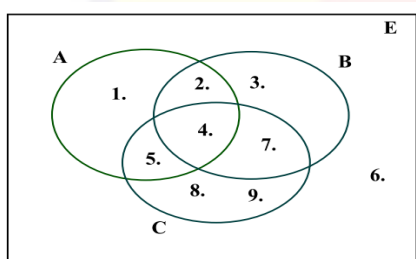
سعادت آباد - بلوار دریا - روبروی خیابان صرافها - پلاک 54 - واحد 10



1. 3 işçi 200 parça işi günde 8 saat çalışarak 5 günde bitirdiğine göre 4 işçinin 300 parça işi 5 günde tamamlaması için günde kaç saat çalışmalıdır?

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

2.



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

A) {1} B) {1,2} C) {1,5}
D) {1,6} E) {1,2,5}

3. $(301)_4 = (122)_4 + (1ab)_4 \Rightarrow a + b = ?$

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

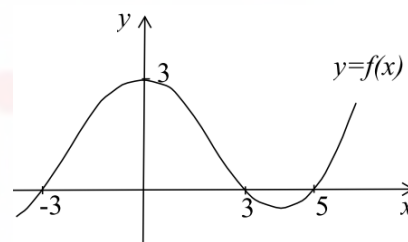
4. $f(x) = 2x + m \Rightarrow (f \circ f \circ f)(x) = ?$

A) $6x + 3m$ B) $6x + m$ C) $8x + m$
D) $8x + 3m$ E) $8x + 7m$

5. $f(x, y) = x^y - y^x \Rightarrow f(f(3, 1), 2) = ?$

A) 0 B) 1 C) 2 D) 3 E) 4

6.



$$(g \circ f)(x) = x^2 - 7x + 10 \Rightarrow g(3) = ?$$

A) -2 B) 0 C) 2 D) 10 E) 40

$$7. \sqrt{a - \sqrt{a - \sqrt{a - \dots}}} = \sqrt[3]{9 \sqrt[3]{9 \sqrt[3]{9 \dots}}}$$

$$\Rightarrow a = ?$$

- A) 6 B) 12 C) 16 D) 27 E) 36

$$8. 3 < x < 5 \Rightarrow \frac{|(x-2)(x-5)| + x - 5}{x^2 - 4x + 3} = ?$$

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

$$9. \frac{(n+1)!}{(n-1)!} = 420 \Rightarrow n = ?$$

- A) 16 B) 20 C) 24 D) 28 E) 32

$$10. \frac{a}{b} = -2 \Rightarrow \frac{2b}{a} - \frac{3a}{b} = ?$$

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

$$11. \left. \begin{array}{l} 2a = 3b \\ 4b = 5c \end{array} \right\} \text{ olduğuna göre aşağıdakilerden hangisi doğrudur?}$$

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

$$12. \left. \begin{array}{l} 3^{x+y} = 80! \\ 3^{2x+y} = 81! \end{array} \right\} \Rightarrow x = ?$$

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

D

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13. $\frac{4}{1 + \frac{3}{1 + \frac{2}{x-2}}} = 2 \Rightarrow x = ?$

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

14. $\frac{0,1\bar{6}}{0,3\bar{3}} = ?$

- A) $\frac{3}{2}$ B) 1 C) $\frac{2}{3}$ D) $\frac{1}{2}$ E) $\frac{16}{33}$

15. $\left(\frac{3}{2} - \frac{5}{4}\right) - \left[\left(2 : \frac{1}{4}\right) \frac{1}{4} - 1\right] = ?$

- A) $-\frac{4}{5}$ B) $-\frac{3}{4}$ C) $-\frac{1}{4}$ D) $\frac{1}{4}$ E) $\frac{3}{4}$

16. $\left(\frac{2^{-2} + 2^{-3}}{2^{-2} + 2^2}\right)^{-1} = ?$

- A) $\frac{3}{34}$ B) $\frac{2}{17}$ C) $\frac{3}{17}$ D) $\frac{17}{3}$ E) $\frac{34}{3}$

17. $\frac{\sqrt[3]{(-3)^3} - \sqrt{(-3)^2}}{\sqrt[3]{(-3)^2} \sqrt{(-3)^2}} = ?$

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

18. $\frac{\sqrt{4,4} + \sqrt{1,1} + \sqrt{9,9}}{\sqrt{1,1}} = ?$

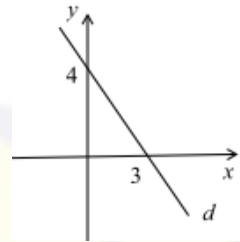
- A) 14 B) 13 C) 9 D) 8 E) 6

19. $P(x-1) = 2x^3 - 2x^2 + 3x + 4$ ise $P(x)$

polinomunun $(x - 2)$ ile bölümünden kalan nedir?

- A) 49 B) 18 C) 7 D) -18 E) -49

21.



Şekildeki d doğrusunun denklemi, aşağıdakilerden hangisidir?

- A) $x + y - 3 = 0$ B) $x + y - 4 = 0$
 C) $3x + 4y - 12 = 0$ D) $4x + 3y - 3 = 0$
 E) $4x + 3y - 12 = 0$

20. $1 + 4 \cos^2 x \sin^2 x + \cos^2 2x = ?$

- A) 2 B) $1 + 2 \cos^2 2x$ C) $2 \sin^2 2x$
 D) 0 E) $2 + \cos^2 2x$

22. $\log_3 2 = a \Rightarrow \log_6 4 = ?$

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

23. $\log_4[14 + \log_5(6x + 1)] = 2 \Rightarrow x = ?$

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

24. $z = -2 + i \Rightarrow |z^4| = ?$

- A) 3 B) 5 C) 9 D) 25 E) 36

25. $z = 1 - i \Rightarrow \frac{z^2 - 1}{\bar{z} - 2i} = ?$

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

26. $\lim_{x \rightarrow 1} \frac{\ln x}{x - 1} = ?$

- A) -1 B) 0 C) 1 D) 2 E)
- $\ln 2$

27. $f(x) = \ln(x^2 + 2x + 1)$ eğrisinin $x = 1$

noktasındaki teğet doğrusunun eğimi aşağıdakilerden hangisidir?

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

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

28. $\left. \begin{array}{l} x = 2 \cos 2t \\ y = e^t - t^2 \end{array} \right\} \Rightarrow \frac{dy}{dx} = ?$

A) $\frac{e^t - 2t}{2 \sin 2t}$ B) $e^t - 2t$ C) 2 D) $-4 \sin 2t$

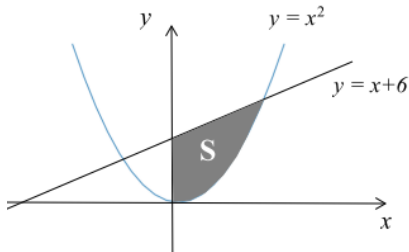
E) $-\frac{e^t - 2t}{4 \sin 2t}$

30. $\int_1^e (\ln x + 1) dx = ?$

A) 1 B) e C) $e - 1$ D) $1 - e$ E) $2e - 1$

29. $f(x) = 3x^2 - \sin x \Rightarrow f'(0) = ?$

31.



S=?

- A) 3 B) $\frac{9}{2}$ C) 9 D) $\frac{27}{2}$ E) 27

33.

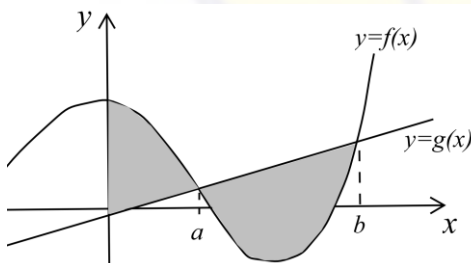
$$A = \begin{bmatrix} 1 & 2 & -1 \\ 0 & 1 & 0 \\ 1 & -2 & 0 \end{bmatrix} \Rightarrow A^2 = ?$$

A) $\begin{bmatrix} 1 & 2 & -1 \\ 0 & 1 & 0 \\ 1 & -2 & 0 \end{bmatrix}$ B) $\begin{bmatrix} 0 & 6 & -1 \\ 0 & 1 & 0 \\ 1 & -2 & 0 \end{bmatrix}$

C) $\begin{bmatrix} 0 & 6 & -1 \\ 0 & 1 & 0 \\ 1 & 0 & 0 \end{bmatrix}$ D) $\begin{bmatrix} 0 & 6 & -1 \\ 0 & 1 & 0 \\ 1 & 0 & -1 \end{bmatrix}$

E) $\begin{bmatrix} 0 & 6 & 1 \\ 0 & 1 & 0 \\ 1 & 0 & 0 \end{bmatrix}$

32.



Şekildeki taralı alan aşağıdakilerden hangisi ile verilmiştir?

- A) $\int_0^a [f(x) - g(x)] dx$
 B) $\int_0^b [f(x) - g(x)] dx$
 C) $\int_0^a |f(x) - g(x)| dx$
 D) $\int_0^b |f(x) - g(x)| dx$
 E) $\int_a^b |f(x) - g(x)| dx$

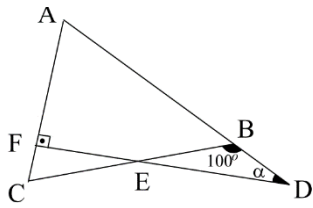
$$34. A = \begin{bmatrix} 1 & -1 \\ 2 & -1 \end{bmatrix} \Rightarrow 2A^{-1} + A = ?$$

A) $\begin{bmatrix} -1 & 1 \\ -2 & 1 \end{bmatrix}$ B) $\begin{bmatrix} 1 & -1 \\ -2 & 1 \end{bmatrix}$

C) $\begin{bmatrix} -1 & -1 \\ -2 & 1 \end{bmatrix}$ D) $\begin{bmatrix} -1 & 1 \\ -2 & -1 \end{bmatrix}$

E) $\begin{bmatrix} 0 & 1 \\ -2 & 1 \end{bmatrix}$

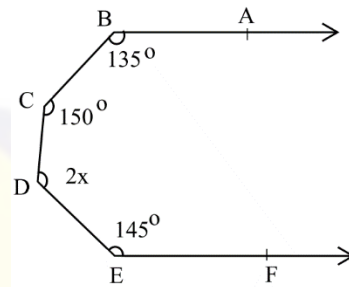
35.



$$\left. \begin{array}{l} |AB| = |BC|, \\ [DF] \perp [AC], \\ m(\widehat{DBC}) = 100^\circ \end{array} \right\} \Rightarrow \alpha = ?$$

- A) 20° B) 30° C) 40° D) 50°
E) 60°

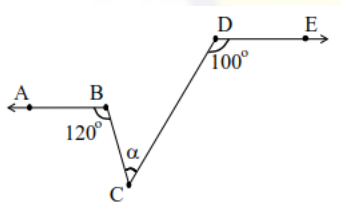
37.



$$\left. \begin{array}{l} [BA] // [EF] \\ m(\widehat{ABC}) = 135^\circ \\ m(\widehat{BCD}) = 150^\circ \\ m(\widehat{DEF}) = 145^\circ \\ m(\widehat{CDE}) = 2x \end{array} \right\} \Rightarrow x = ?$$

- A) 40° B) 45° C) 50° D) 55° E) 110°

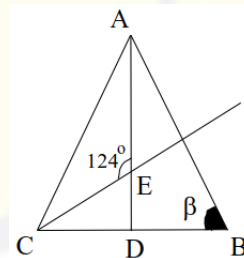
36.



$$\left. \begin{array}{l} [AB] // [DE] \\ m(\widehat{ABC}) = 120^\circ \\ m(\widehat{CDE}) = 100^\circ \end{array} \right\} \Rightarrow \alpha = ?$$

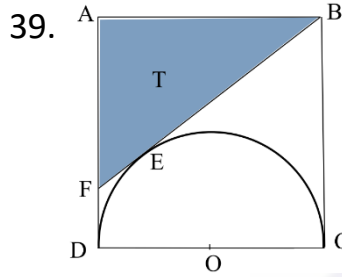
- A) 20° B) 40° C) 100° D) 120° E) 220°

38.



- A) 28° B) 34° C) 56° D) 68° E) 124°

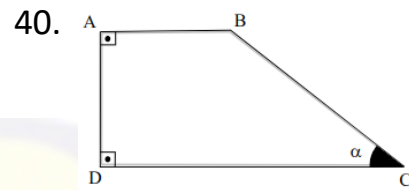
$|AC| = |AB|$,
[AD] kenarortay
[CE] açıortay
 $m(\widehat{CEA}) =$
olduğuna göre



Şekilde kenar uzunluğu 4 cm olan ABCD kare görülmektedir. [BF] doğru parçası, O merkezli yarım çembere E

noktasında teğettir. T taralı bölgenin alanı kaç cm^2 dir?

- A) $4 - \pi$ B) 4 C) 6 D) $16 - \pi$ E) $16 - 4\pi$



ABCD bir yamuk,
 $|AB| = 3\text{cm},$
 $|DC| = 7\text{cm},$
 $A(ABCD) = 20\text{cm}^2$ } $\Rightarrow \alpha = ?$

- A) 20° B) 30° C) 45° D) 60°
 E) 75°

D

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1. 5, 6, 8, 11, 15, 20, 26, X,...

X=?

A) 32 B) 33 C) 34 D) 35 E) 36

3. $\left. \begin{array}{l} ELMA \\ MASA \\ LEKE \\ YAKA \\ SAYI \end{array} \right\}$

3454
8474
5489
1272
2134

KAMELYA=?

A) 7458154 B) 8458174 C) 7432184
D) 3458174 E) 7438154

2. 1, 5, 3, 8, 12, 10, 15, 19, 17, X, ...

X=?

A) 13 B) 15 C) 20 D) 21 E) 22

4.

$$3\Delta 4 = 2$$

$$3\Delta 2 = 4$$

$$4\Delta 2 = 6$$

$$5\Delta 4 = 6$$

$$6\Delta 3 = ?$$

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

5.

$$2 \nabla 5 = 7$$

$$3 \nabla 2 = 5$$

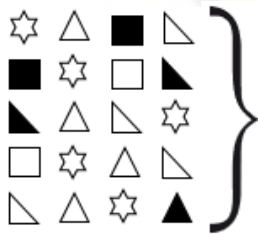
$$4 \nabla 6 = 10$$

$$5 \nabla 3 = 8$$

$$6 \Delta 1 = ?$$

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

6.



3274 5238

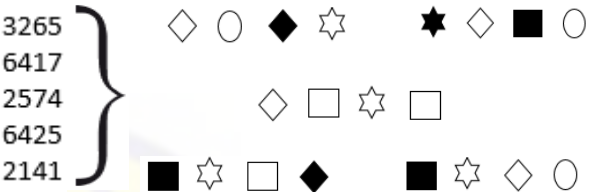
4726

8742 2754

star, empty square, empty triangle, filled square = ?

- A) 5342 B) 3254 C) 4352
- D) 2345 E) 2453

7.

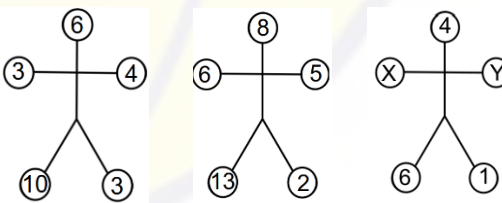


3265 6417 2574 6425 2141

empty circle, star, filled square, empty diamond = ?

- A) 5432 B) 6435 C) 5462
- D) 5461 E) 6542

8.



X+Y=?

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

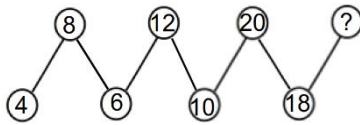
D

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TEMEL ÖĞRENME BECERİLERİ

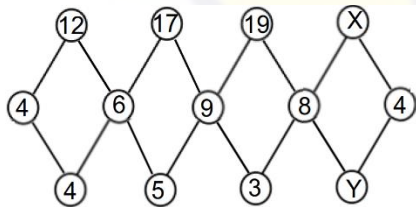
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9.



- A) 32 B) 34 C) 36 D) 38 E) 40

10.



X-Y=?

- A) 5 B) 6 C) 8 D) 10 E) 12

11. 25716 → 65172

34621 → 14263

47837 → ?

- A) 83747 B) 74783 C) 77384
D) 48737 E) 77834

12. I. 142 → 10
II. 253 → 21
III. 318 → 32
IV. 474 → 44
V. 584 → ?

- A) 36 B) 40 C) 44 D) 48 E) 52

D

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TEMEL ÖĞRENME BECERİLERİ

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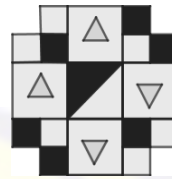
13. I. 152 → 4
 II. 342 → 5
 III. 325 → 0
 IV. 543 → 6
 V. 617 → 0
 VI. 825 → ?

A) 5 B) 3 C) 1 D) 0 E) -1

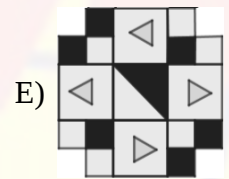
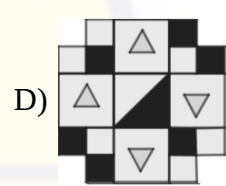
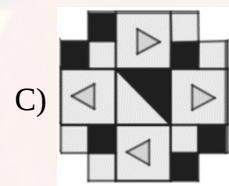
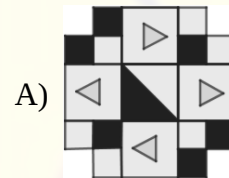
14. I. 1052 → 8
 II. 3142 → 10
 III. 3405 → 12
 IV. 3424 → 13
 V. 4154 → 14
 VI. 4355 → ?

A) 16 B) 17 C) 18 D) 19 E) 20

15.



Şeklin saatin ters yönünde 270° derece döndürülmüş hali aşağıdakilerden hangisidir?

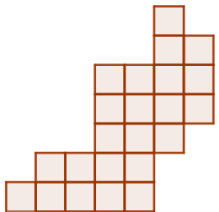


16.



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

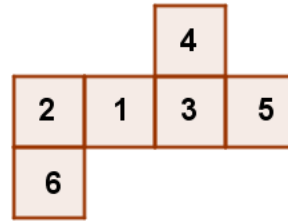
17.



Şeklin içinde
aşağıdakilerden hangisi
yoktur?

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

18.



Yukarıdaki şekil küp haline getirilirse “5”
rakamına komşu olan rakamların toplamı ne
olur?

- A) 5 B) 10 C) 13 D) 14 E) 15

19.

$$\triangle + \triangle + \star = 30$$

$$\star + \star - \square = 12$$

$$\square + \square + \square = 12$$

$$\triangle + \star - \square = ?$$

- A) 5 B) 10 C) 13 D) 14 E) 15

20.

5	1	3	9
3	2	7	12
2	1	5	8
4	2	X	9

X = ?

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

21.

3	5	8	1
4	2	3	5
2	X	5	6
5	6	1	4

X = ?

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

22.

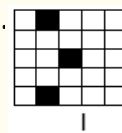
+	x	y	z
x			
y	z + 5		
z		x - 1	

·	x	y	z
x		$\frac{z}{2}$	
y			
z			

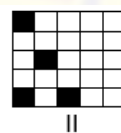
Yukarıda tamsayılarda toplama ve çarpma işlemleri ile tanımlanan tablolarda x, y ve z harfleri birer sayıya karşılık gelmektedir. Buna göre $\frac{x}{z}$ kaçtır?

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

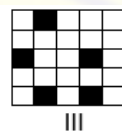
23.



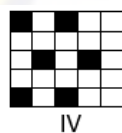
I



II



III



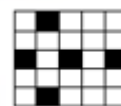
IV

?

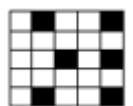
V



A)



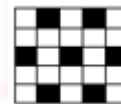
B)



C)

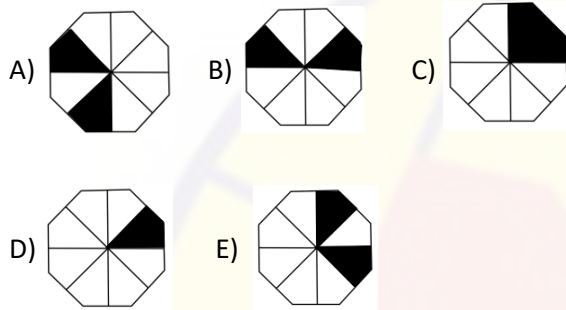
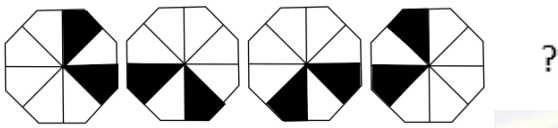


D)

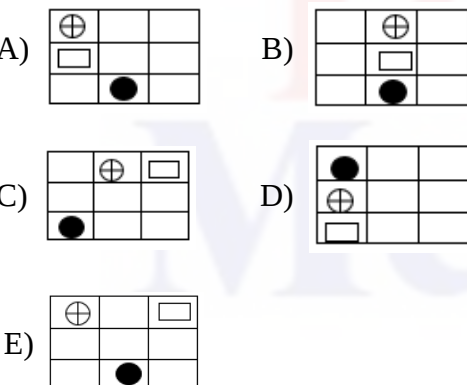
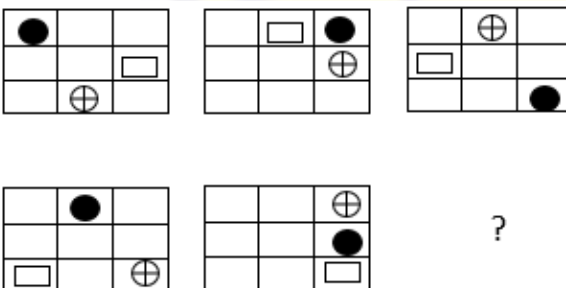


E)

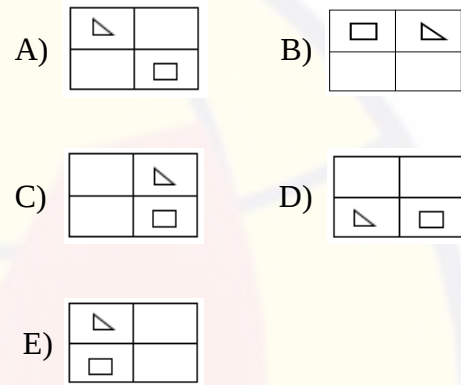
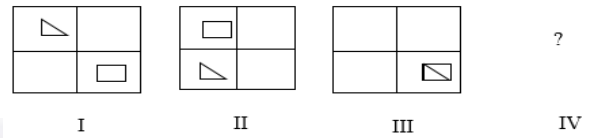
24.



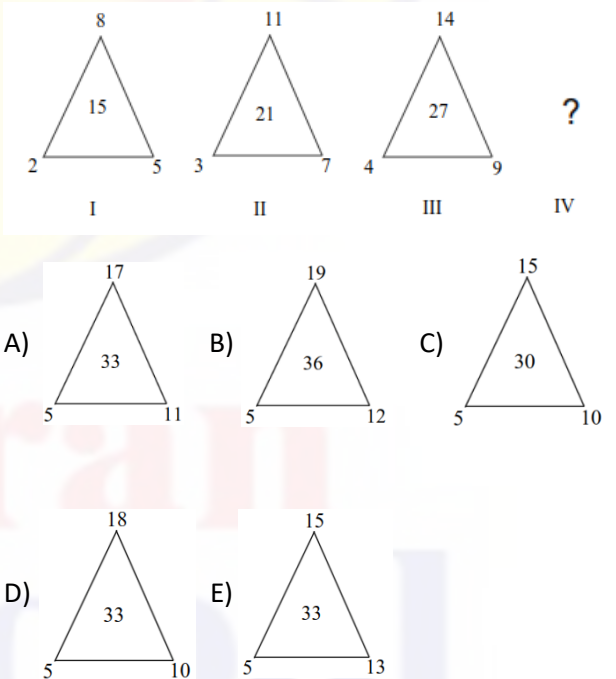
25.



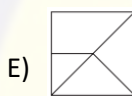
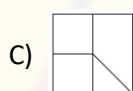
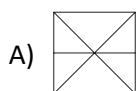
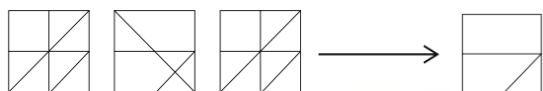
26.



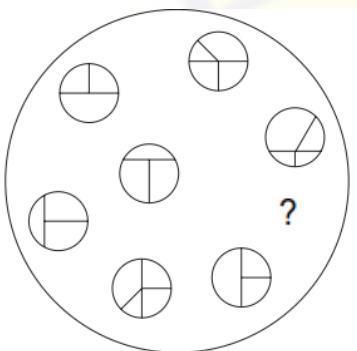
27.



28.



29.



30.

4	10
20	8

7	16
32	14

6	14
28	12

8	?
?	?

A)

	18
36	16

B)

	17
34	15

C)

	12
22	10

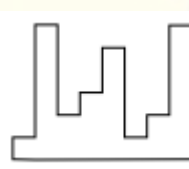
D)

	20
40	16

E)

	19
38	16

31.



Aşağıdakilerden hangisi yukardaki şekli kareye tamamlar?

A)



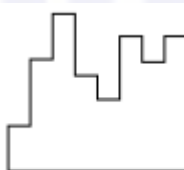
C)



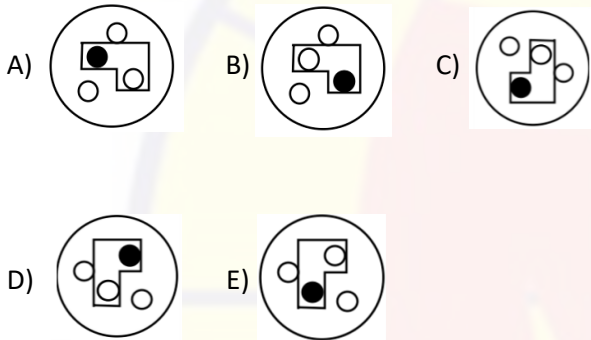
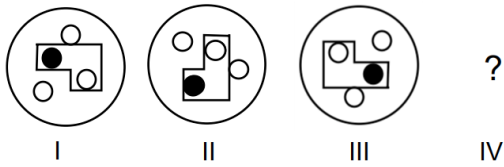
D)



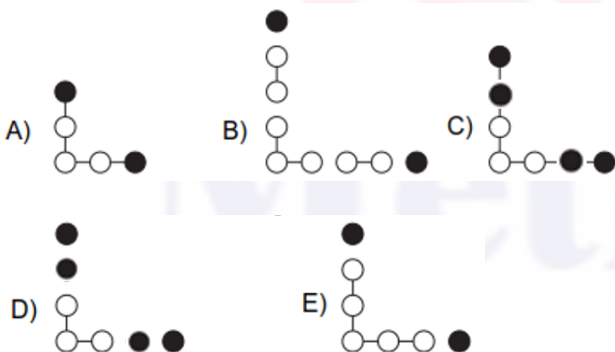
E)



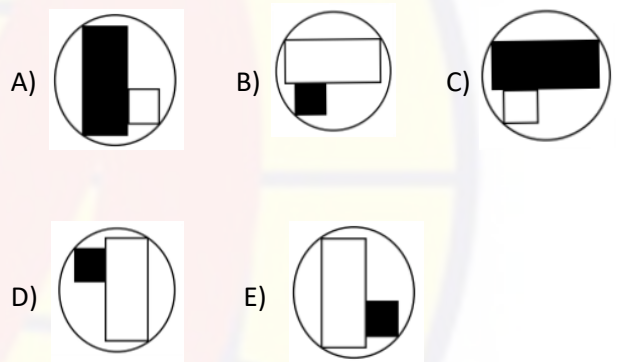
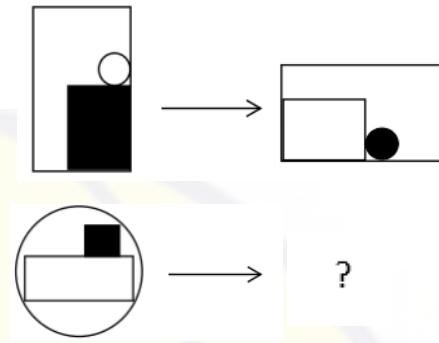
32.



33.



34.

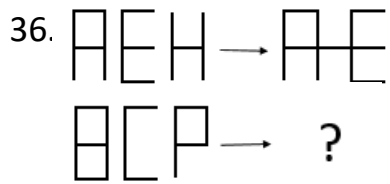


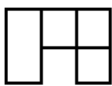
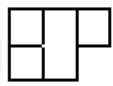
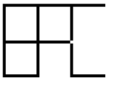
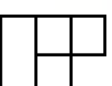
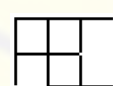
35.

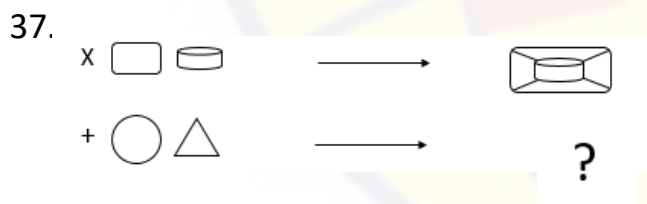
		3	4	5		
	1	4	8	6	5	
2	1	4	8	2	3	4
	6	1	9	3	8	
		4	X	6		

X = ?

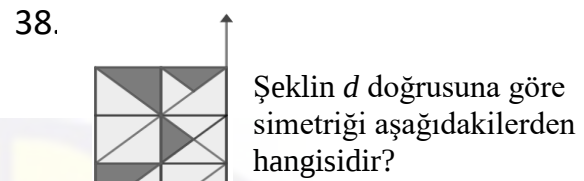
A) 6 B) 5 C) 4 D) 3 E) 2

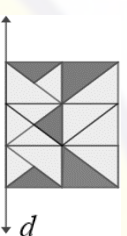
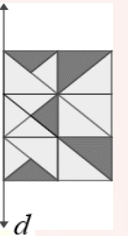


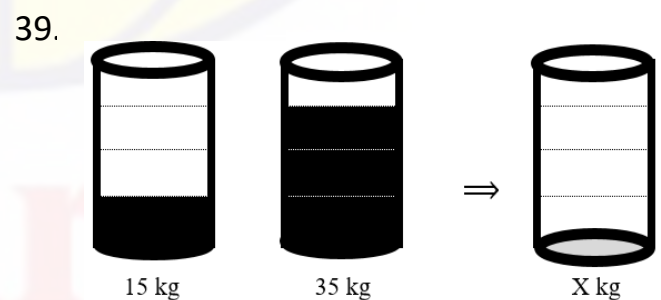
- A)  B)  C) 
- D)  E) 



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



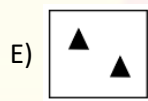
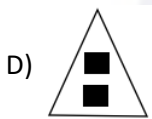
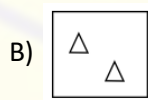
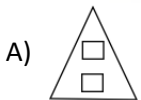
- A)  B)  C) 
- D)  E) 



X = ?

- A) 3 B) 4 C) 5 D) 7 E) 10

40.



Tehran
Metropol