

1.

$$(a^2 - 4, 12 - b^2) = (12, 8)$$

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

$$a+b = ?$$

- A) 4 B) 6 C) 8 D) 10 E) 12

2.

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

- A) 720 B) 696 C) 116
D) 20 E) 16

3.

$$\frac{0,\bar{3} + 0,\bar{7} + 0,\bar{1}}{0,\bar{6} - 1,\bar{3} + 0,\bar{5}} = ?$$

- A) -11 B) -9 C) $\frac{11}{9}$
D) 9 E) 11

4.

$$\sqrt[3]{x-2} + \sqrt[3]{8x-16} = 6$$

$$x = ?$$

- A) 6 B) 8 C) 10 D) 12 E) 14

5.

$$\sqrt{\frac{27}{4}} + \sqrt{\frac{3}{4}} - \sqrt{\frac{75}{4}} = ?$$

- A) $\frac{9\sqrt{3}}{2}$ B) $\frac{3\sqrt{3}}{2}$ C) $\frac{\sqrt{3}}{2}$
D) $-\frac{\sqrt{3}}{2}$ E) $-\frac{5\sqrt{3}}{2}$

6.

$$\frac{2^{2002} + 2^{2001} + 2^{2000}}{2^{-2004} + 2^{-2003} + 2^{-2002}} = ?$$

- A) 2^{2000} B) 2^{2001} C) 2^{2002}
D) 2^{2003} E) 2^{4004}



7.

$$\frac{x^2 - 2x - 3}{6x^2 + 7x - 3} \cdot \frac{x^2 - x - 2}{2x^2 - x - 6} = ?$$

A) $\frac{x+2}{x-3}$ B) $\frac{x+3}{3x-1}$ C) $\frac{x-2}{3x+1}$

D) $\frac{x-3}{3x-1}$ E) $\frac{x-1}{3x-1}$

8.

$$2x(x - y) + y(y - x) = ?$$

A) $(x - y)(2x - y)$

B) $(y - x)(2x - y)$

C) $(x - y)(2y - x)$

D) $(y - x)(x - y)$

E) $(y - x)(2y - x)$

9.

$$A = 3x^3 + 2x^2 + ax - 1$$

$$B = 2x^3 - (2a + 1)x^2 + 4x + 1$$

$$A \cdot B = \dots + 2x^4 + \dots$$

$$a = ?$$

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

10.

$$\frac{2 - 5x}{3} = 4 - 2x \quad x = ?$$

A) 4

B) 6

C) 10

D) 12

E) 14

11.

$$2(x-1) - 3 = 4 - 3(2-3x)$$

$$x=?$$

A) -1 B) $-\frac{7}{11}$ C) $-\frac{3}{7}$

D) $-\frac{3}{11}$ E) 1

12.

$$f(x) = mx^2 + 6x - n$$

$$f(x_1) = f(x_2) = 0$$

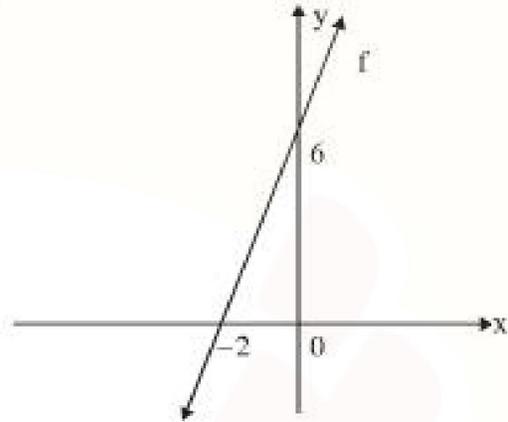
$$x_1 = x_2$$

$$m.n=?$$

A) -11 B) -10 C) -9

D) -8 E) -7

13.



$$f(-2) = 0$$

$$f(0) = 6$$

$$f(4) = ?$$

A) 14 B) 16 C) 18

D) 21 E) 24

14.

$$f(2x+a) = \frac{x+6}{x+4}$$

$$f(3) = 3$$

$$a = ?$$

A) 9 B) 5 C) 3

D) -1 E) -3



15.

$$\log_x 2 = \log_{2x} 8$$

$$x = ?$$

A) $\frac{1}{\sqrt{2}}$ B) $\sqrt{2}$ C) 2

D) $2\sqrt{2}$ E) 4

16.

$$\frac{2}{\log_3 45} + \frac{1}{\log_5 45} = ?$$

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

D) 2 E) $\frac{5}{2}$

17.

$$f(x) = \begin{cases} 3x-2, & x < 1 \\ 4x+1, & 1 < x < 4 \\ 3x-2, & x > 4 \end{cases}$$

$$\lim_{x \rightarrow 1^+} f(x) + \lim_{x \rightarrow 4^-} f(x) = ?$$

A) 22 B) 24 C) 26

D) 28 E) 30

18.

$$\lim_{x \rightarrow 0^+} \left(\left(\frac{7}{2} \right)^x + \left(\frac{9}{10} \right)^x + 2 \right) = ?$$

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

19.

$$\frac{d^2}{dx^2}[5x^2 - 2x + 3] = ?$$

- A) $2x$ B) $3x$ C) 4
D) 5 E) 10

20.

$$3z + 2i = \bar{z} - 3 \Rightarrow |z| = ?$$

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

21.

$$f(x) = e^{\sin x} \tan x$$

$$f'(x) = ?$$

- A) $f'(x) = e^{\sin x} (\sin x + \tan^2 x)$
B) $f'(x) = e^{\sin x} (\sin x + \sec^2 x)$
C) $f'(x) = e^{\sin x} (\sin x + \operatorname{cosec}^2 x)$
D) $f'(x) = e^{\sin x} (\sin x - \sec^2 x)$
E) $f'(x) = e^{\sin x} (\sin x - \tan^2 x)$

22.

$$f(x) = [2 + (x^2 - x - 1)^3]^2$$

$$f'(2) = ?$$

- A) 60 B) 54 C) 48
D) 42 E) 36

23.

$$\int_2^{10} |2x - 8| dx = ?$$

- A) 0 B) 20 C) 40
D) 45 E) 60

24.

$$-3 \int \cos^2 x \sin x dx = ?$$

- A) $\cos^3 x + c$ B) $\sin^3 x + c$
C) $\cos^2 x + c$ D) $\sin^2 x + c$
E) $\sin^3 x \cos^3 x + c$

25.

$$\int \frac{-\tan x dx}{\ln(\cos x)} = ?$$

- A) $\ln|\ln(\cot x)| + c$ B) $\ln|\ln(\tan x)| + c$
C) $\ln|\ln(\sin x)| + c$ D) $\ln|\ln(\cos x)| + c$
E) $\ln|\ln(\sec x)| + c$

26.

$$\prod_{k=4}^{12} \left(\frac{k-3}{k-2} \right) = ?$$

- A) $\frac{1}{8}$ B) $\frac{1}{9}$ C) $\frac{1}{10}$
D) $\frac{1}{11}$ E) $\frac{1}{12}$

27.

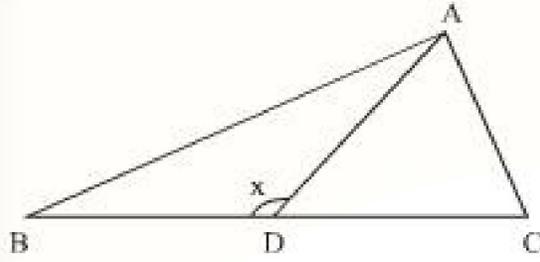
$$\pi < x < \frac{3\pi}{2}, \sin 2x + \sin x = 0$$

$x = ?$

- A) $\frac{7\pi}{6}$ B) $\frac{5\pi}{4}$ C) $\frac{4\pi}{3}$
D) $\frac{7\pi}{5}$ E) $\frac{8\pi}{5}$



28.



$$|AC| = |DC| = 5$$

$$|AD| = 6$$

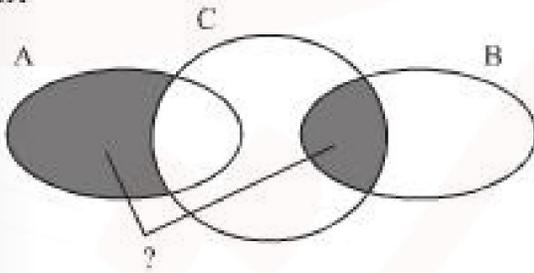
$$m(\widehat{ADB}) = x$$

$$\sin x = ?$$

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

D) $\frac{3}{5}$ E) $\frac{4}{5}$

29.

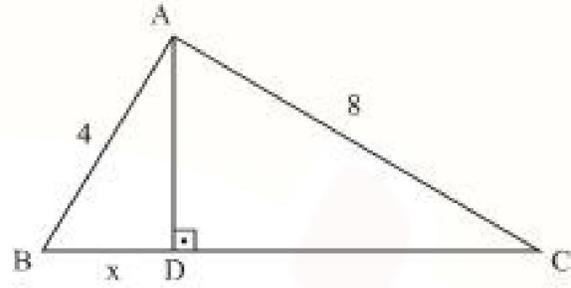


A) $(A \cup B) \cap C'$ B) $A \setminus (C \setminus B)$

C) $(A \setminus C) \cup (C \cap B)$ D) $A \setminus (B \cap C)$

E) $(A \setminus B) \cup C$

30.



$$m(\widehat{ADC}) = 90^\circ$$

$$|AC| = 8$$

$$|AB| = 4$$

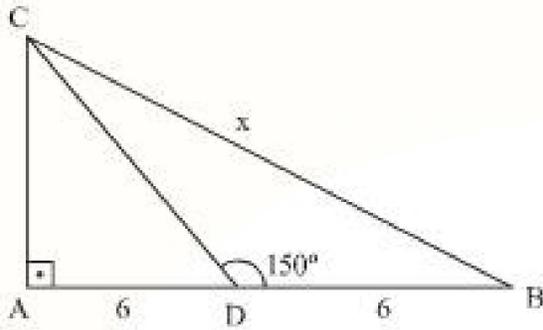
$$|BC| = 10$$

$$|BD| = x = ?$$

A) $\frac{5}{4}$ B) $\frac{11}{7}$ C) 2

D) $\frac{13}{5}$ E) 7

31.



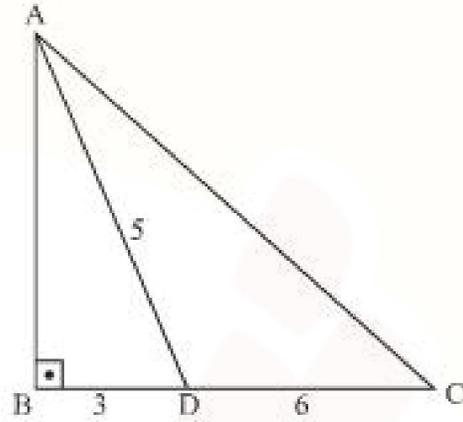
$$|AD| = |DB| = 6, m(\widehat{A}) = 90^\circ,$$

$$m(\widehat{CDB}) = 150^\circ, |BC| = x = ?$$

A) $2\sqrt{3}$ B) $4\sqrt{3}$ C) $2\sqrt{13}$

D) $2\sqrt{39}$ E) $12\sqrt{3}$

32.



$$|AD| = 5$$

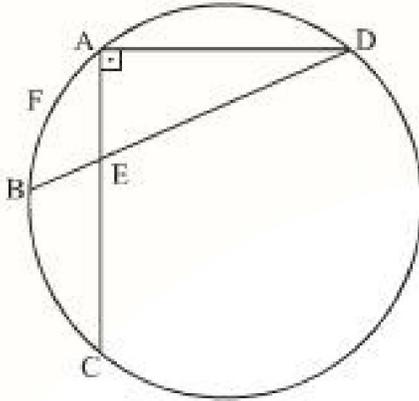
$$|BD| = 3 \quad A(ADC) = ?$$

$$|DC| = 6$$

A) 6 B) 12 C) 15 D) 18 E) 30



33.



$$m(\widehat{AFB}) = 60^\circ$$

$$m(\widehat{CAD}) = 90^\circ$$

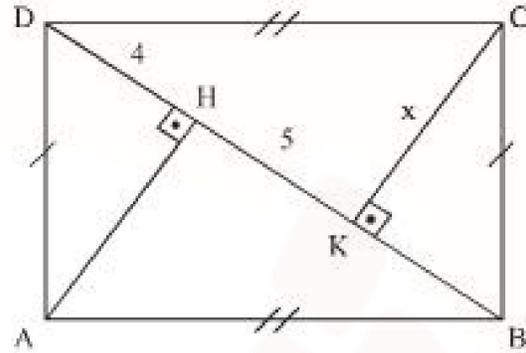
$$|EC| = 12$$

$$|AC| = |BD|$$

$$|AD| = ?$$

- A) 5 B) 6 C) $4\sqrt{3}$
D) $5\sqrt{3}$ E) $6\sqrt{3}$

34.



$$m(\hat{A}) = m(\hat{B}) = m(\hat{C}) = m(\hat{D}) = 90^\circ$$

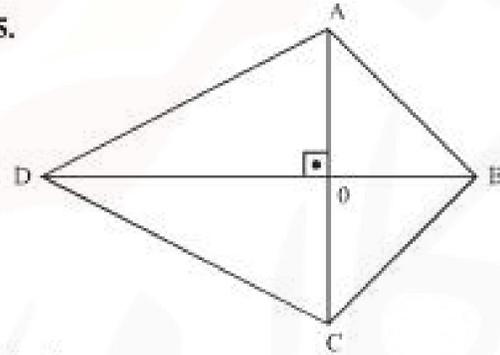
$$|DH| = 4$$

$$|HK| = 5$$

$$|CK| = x = ?$$

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

35.



$$|AD| = 12$$

$$|BC| = 4$$

$$|DC| = 2|AB|$$

$$AC \perp BD \Rightarrow |AB| = ?$$

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



36. ve 37. sorularda, I. gruptaki kümelerin şekilleri birer rakamla gösterilerek II. gruptaki sayılar elde edilmiştir. Soru işaretleriyle belirtilen kümenin hangi sayıyla gösterildiğini bulunuz.

In questions 36 and 37, the numbers in group II stand for the sets of figures in group I, when each figure has been coded with a specific numeral. Find the number which corresponds to the set of the figures indicated by the question mark.

36.

I.				II.			
⊗	Δ	Ω	θ	}	}	1234 2436 3651	
Ψ	Ο	Δ	Ω				
Ω	θ	Ψ	⊗				4512 6145
Ο	Ω	⊗	Δ				
θ	⊗	Ψ	Ο				

$$\Psi \theta \Omega \Delta = ?$$

- A) 1235 B) 2346 C) 3215
D) 4521 E) 6132

37.

I.				II.			
⊕	Δ	∅	Θ	}	}	1987 3189 7392	
Γ	Φ	Δ	∅				
∅	Θ	Γ	⊕				8723 9231
Φ	∅	⊕	Δ				
Θ	⊕	Γ	Φ				

$$\Theta \Phi \oplus \Delta = ?$$

- A) 1279 B) 1792 C) 2197
D) 7139 E) 9721

38. ve 39. sorularda, I. gruptaki sözcüklerin harfleri birer rakamla gösterilerek II. gruptaki sayılar elde edilmiştir. Soru işaretiyle belirtilen sözcüğün hangi sayıyla gösterildiğini bulunuz.

In questions 38 and 39, the numbers in group II stand for the words in group I, when each letter has been coded with a specific numeral. Find the number which corresponds to the word indicated by the question mark.

38.

I.	II.
SOPA	$\left. \begin{array}{l} 6785 \quad 7458 \quad 7694 \\ 8549 \quad 9456 \end{array} \right\}$
KASO	
EPOS	
KOPE	
AKEP	

SEKO=?

- A) 4895 B) 5874 C) 6985
D) 7694 E) 9874

39.

I.	II.
PİDE	$\left. \begin{array}{l} 1235 \quad 2364 \quad 3546 \\ 4612 \quad 5462 \end{array} \right\}$
DEAH	
İDEH	
AHPİ	
HPED	

APDİ=?

- A) 1345 B) 1435 C) 3546
D) 4365 E) 5346

40.

Δ	a	b	c	d	e
a	b	c	d	e	a
b	c	d	e	a	b
c	d	e	a	b	c
d	e	a	b	c	d
e	a	b	c	d	e

$$(x^{-1} \Delta c) \Delta (b^{-1} \Delta a) = d$$

$$x = ?$$

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

41. ve 42. soruların aşağıdaki tabloya göre cevaplayınız.

Answer the questions 41 and 42 according to the table below.

Tabloda \diamond işleminin görevi belirlenmiştir.
The function of \diamond in the table is defined.

\diamond	1	2	3	4	5
1	1	2	3	4	5
2	2	1	4	3	5
3	3	4	1	2	5
4	4	3	2	1	5
5	5	5	5	5	5

Örnekler:

Examples:

$$203 = 4$$

$$102 = 2$$

41.

$$(302) \diamond (403) = ?$$

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

42.

$$(x02) \diamond 02 = 3 \Rightarrow x = ?$$

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

43.

+	a	b	c
a			
b		$6-c$	
c		5	$2a-8$

Yukarıdaki toplama tablosunda a, b ve c harfleri birer sayının yerine kullanılmıştır. Buna göre, a kaçtır?

In the addition table above, the letters a, b and c each stand for a number. Accordingly, what is the value of a?

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

44.

+	a	b
a		4
b		

X	a	b
a		
b	2	

Yukarıdaki çarpma ve toplama tablolarında a ve b harfleri pozitif birer sayının yerine kullanılmıştır. Buna göre, $(a - b)^2$ kaçtır?

In the addition table above, the letters a and b each stand for a number. Accordingly, what is the value of $(a - b)^2$?

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

45.

X	a	b	c
a		$4c$	
b			$9a$
c			

Yukarıdaki toplama tablosunda a, b ve c harfleri pozitif birer sayının yerine kullanılmıştır. Buna göre, b kaçtır?

In the addition table above, the letters a, b and c each stand for a number. Accordingly, what is the value of b?

- A) 4 B) 6 C) 8 D) 9 E) 12



46.

△	★	○	△	□	○	★
○	□	△	•	○	⊕	★
★	△	⊕	•	□	•	△
○	⊕	★	△	⊕	★	○
□	□	○	□	•	△	⊕
★	•	□	○	★	△	○
•	★	⊕	□	○	⊕	△

I.

K	L
L	K

K = ○ L = □

II.

M	L
N	K

M = ? N = ?

I ve II yukarıdaki tablonun farklı birer parçasıdır. Buna göre, II'deki M ve N'nin yerine aşağıdakilerden hangisi gelmelidir?

I and II are different pieces of the given table above. According to this, which of the following should be put instead of M and N in II?

- | | | |
|----|---|---|
| | M | N |
| | — | — |
| A) | ⊕ | • |
| B) | • | △ |
| C) | • | ⊕ |
| D) | ⊕ | △ |
| E) | △ | • |

47.

+	X	∇	□	+	•	□
∇	△	•	∇	△	X	+
□	•	△	•	∇	+	∇
□	∇	+	□	X	X	•
•	△	△	•	+	∇	∇
∇	X	∇	X	△	+	•
•	+	+	△	X	□	△

I.

K	K
X	L

K = △ L = ∇

II.

M	L	K	N
---	---	---	---

M = ? N = ?

I ve II yukarıdaki tablonun farklı birer parçasıdır. Buna göre, II'deki M ve N'nin yerine aşağıdakilerden hangisi gelmelidir?

I and II are different pieces of the given table above. According to this, which of the following should be put instead of M and N in II?

- | | | |
|----|---|---|
| | M | N |
| | — | — |
| A) | □ | • |
| B) | X | □ |
| C) | + | • |
| D) | • | X |
| E) | • | + |

48.

+	△	□	△	□	■	+
△	⊕	+	■	△	⊕	△
■	•	□	+	⊕	□	•
□	△	⊕	•	□	•	+
+	□	+	⊕	■	□	⊕
⊕	■	□	+	■	⊕	△
+	⊕	△	■	+	•	⊕

I.

K	L
	K
	L

II.

L	M
N	K

K = □ L = + M = ? N = ?

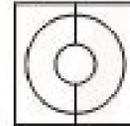
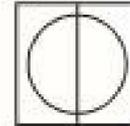
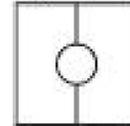
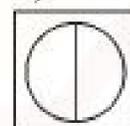
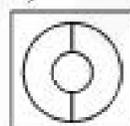
I ve II yukarıdaki tablonun farklı birer parçasıdır. Buna göre, II'deki M ve N'nin yerine aşağıdakilerden hangisi gelmelidir?

I and II are different pieces of the given table above. According to this, which of the following should be put instead of M and N in II?

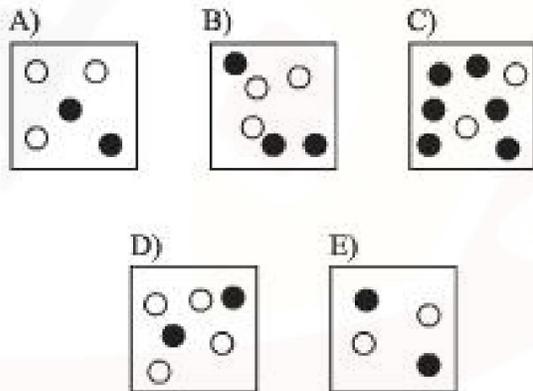
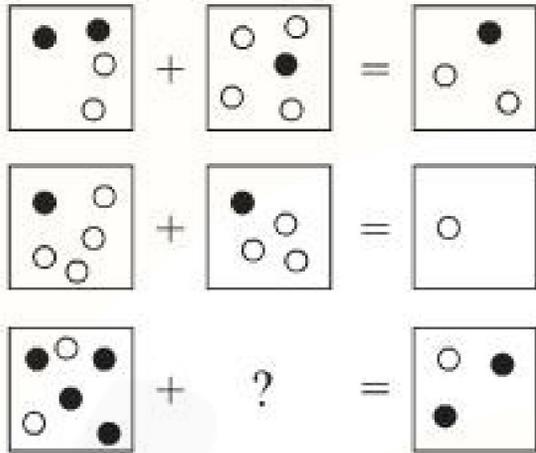
- | | M | N |
|----|---|---|
| A) | ⊕ | ■ |
| B) | ⊕ | • |
| C) | • | ⊕ |
| D) | ⊕ | ■ |
| E) | △ | ⊕ |

49.

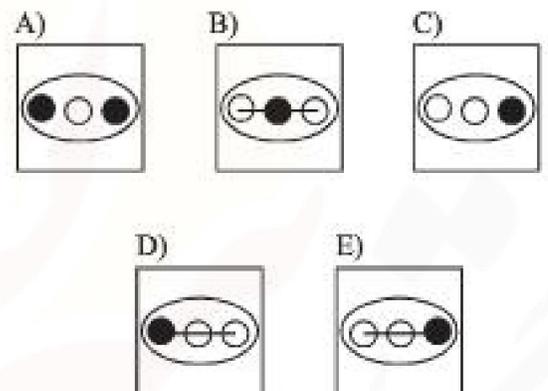
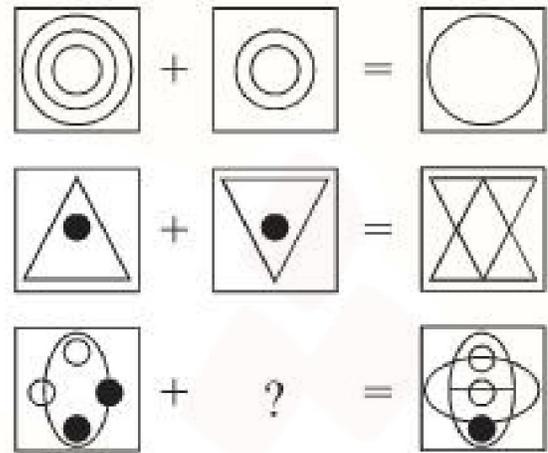


- A)  B)  C) 
- D)  E) 

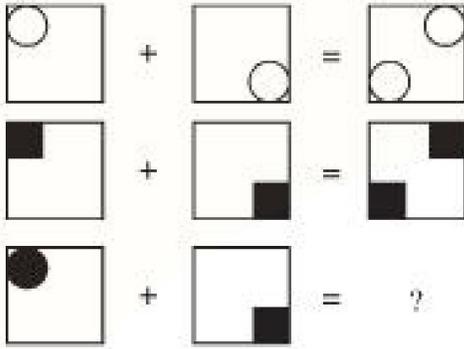
50.

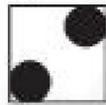
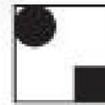
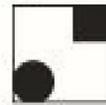
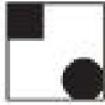


51.



52.

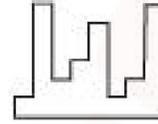


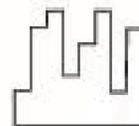
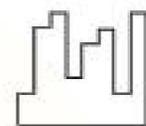
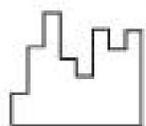
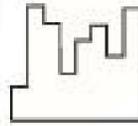
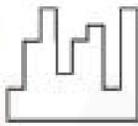
- A)  B)  C) 
- D)  E) 

53.

Aşağıdaki parçalardan hangisi verilen şekil tam bir kare yapar?

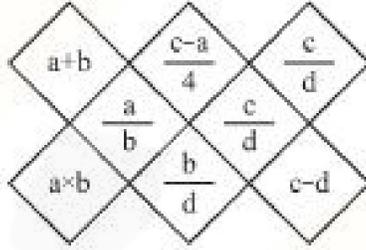
Which of the following shapes can make the given shape a whole square?



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

54., 55. ve 56. soruları aşağıdaki şekle göre cevaplayınız.

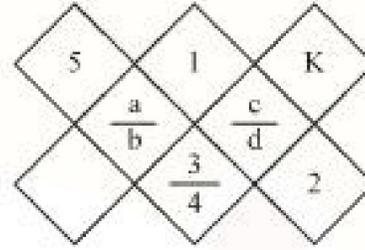
Answer the questions 54, 55 and 56 according to the figure below.



Yukarıdaki şekil a, b, c ve d harfleriyle gösterilen dört pozitif tam sayıyı içeren bazı işlemlere göre düzenlenmiştir. Harflerin gösterdiği sayılar her soruda farklı olabilir fakat bunlarla yapılacak işlemler her soruda aynıdır.

The figure above is arranged according to some operations which include four positive whole numbers indicated by a, b, c and d. The numbers that each letter indicate can be different in each question, but the procedure to be done is the same in all questions.

54.



K=?

Yukarıdaki verilen şekle göre, K kaçtır?

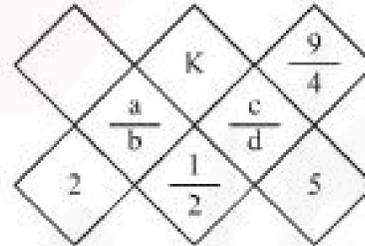
According to the given figure above, what is the value of K?

A) 3

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

E) 2

55.



K=?

Yukarıdaki verilen şekle göre, K kaçtır?

According to the given figure above, what is the value of K?

A) 1

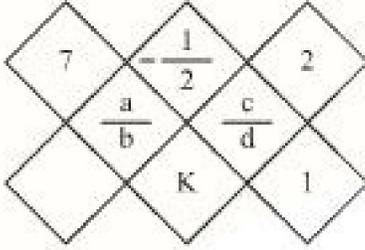
B) 2

C) 4

D) 5

E) 9

56.



K=?

Yukarıdaki verilen şekle göre, K kaçtır?*According to the given figure above, what is the value of K?*

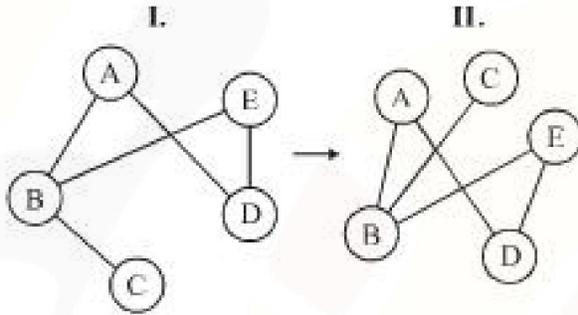
A) 1 B) 2 C) 3 D) 4 E) 5

57., 58. ve 59. soruları verilen ilişkiye göre cevaplayınız.

Answer the questions 57, 58 and 59 according to the relationship given in the example.

Örnek:

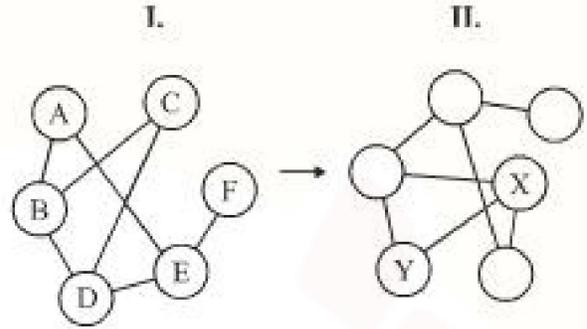
Example:



A, B, C, D ve E harfleri I. şekildeki gibi birbirine bağlanmıştır. I. şekildeki bağlantı sayıları ve birbirine bağlanan harfler değişmemek koşuluyla II. şekil elde edilmiştir.

The letters A, B, C, D and E are connected to each other as it is given in the figure I. Figure II is obtained without changing the number of connections and the letters connected.

57.

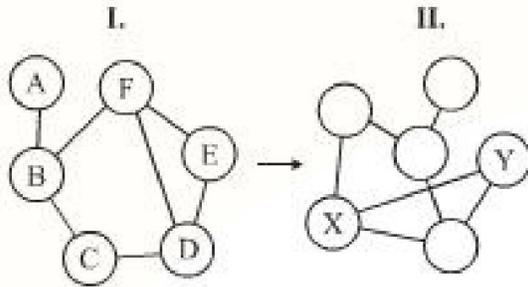


II. şekilde X ve Y'nin yerine gelmesi gereken harfleri bulunuz.

Find the letters that should be put instead of X and Y in the figure II.

	X	Y
A)	B	C
B)	E	C
C)	B	A
D)	D	E
E)	D	C

58.

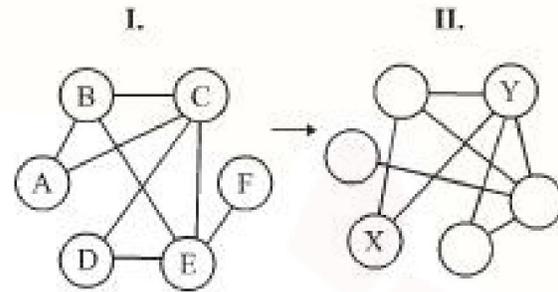


II. şekilde X ve Y'nin yerine gelmesi gereken harfleri bulunuz.

Find the letters that should be put instead of X and Y in the figure II.

	X	Y
A)	C	F
B)	B	F
C)	D	E
D)	F	C
E)	B	E

59.

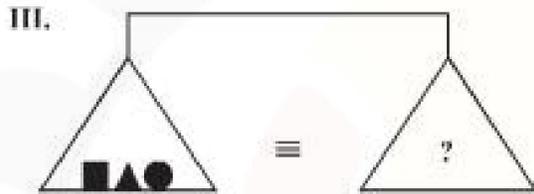
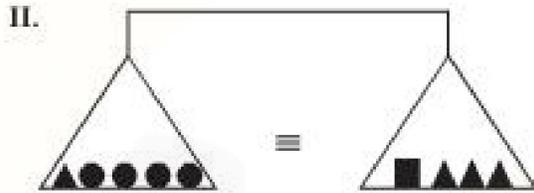
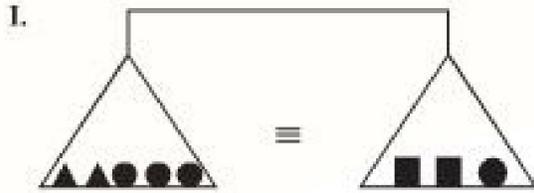


II. şekilde X ve Y'nin yerine gelmesi gereken harfleri bulunuz.

Find the letters that should be put instead of X and Y in the figure II.

	X	Y
A)	A	C
B)	A	B
C)	F	B
D)	D	C
E)	E	F

60.

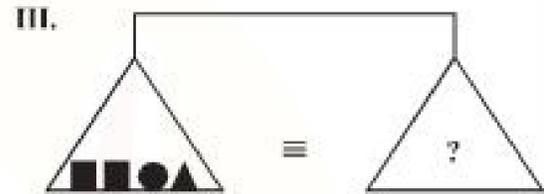
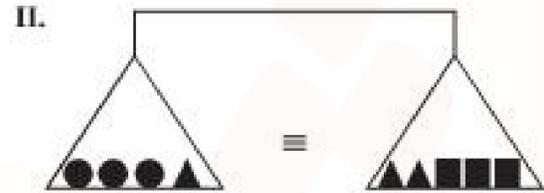
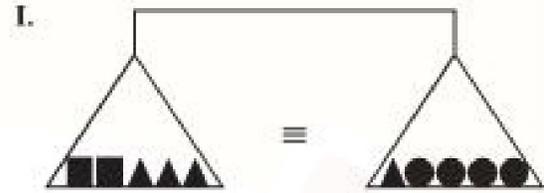


Yukarıdaki terazilerin üçü de dengede olduğuna göre, III. terazide soru işareti aşağıdakilerden hangisini göstermektedir?

All three scales above are in balance. Accordingly, which of the following does the question mark stand for in the third scale?

- A) ●●●■ B) ●▲▲■
C) ▲▲●● D) ■■●▲
E) ■■■■

61.



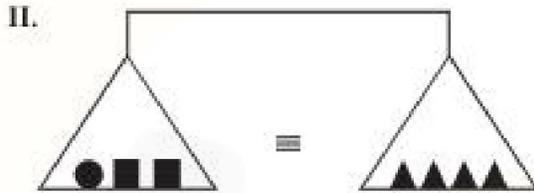
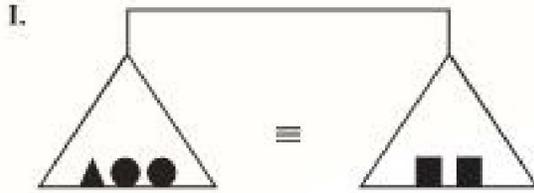
Yukarıdaki terazilerin üçü de dengede olduğuna göre, III. terazide soru işareti aşağıdakilerden hangisini göstermektedir?

All three scales above are in balance. Accordingly, which of the following does the question mark stand for in the third scale?

- A) ■▲▲● B) ■▲●●
C) ■●●● D) ▲●●●
E) ■■■▲●



62.



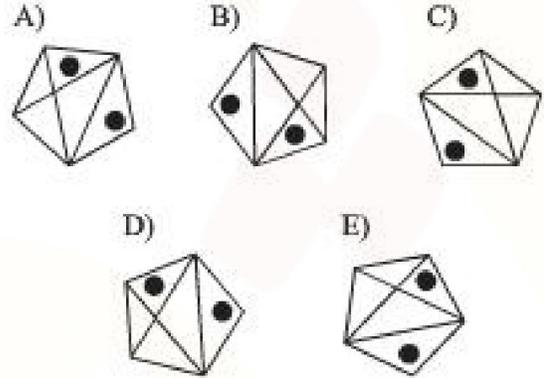
Yukarıdaki terazilerin üçü de dengede olduğuna göre, III. terazide soru işareti aşağıdakilerden hangisini göstermektedir?

All three scales above are in balance. Accordingly, which of the following does the question mark stand for in the third scale?

- A) ● ● ■ B) ● ▲ ▲ ▲
C) ■ ■ D) ▲ ▲ ● ●
E) ■ ▲ ▲ ●

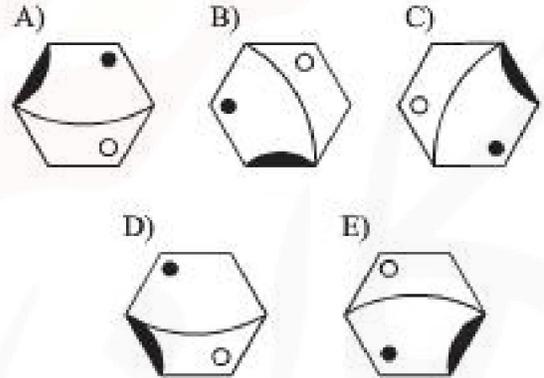
63.

Aşağıdaki şekillerden hangisi farklıdır?
Which of the following figures is different?

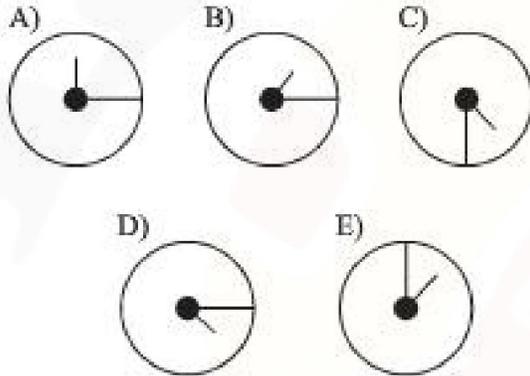
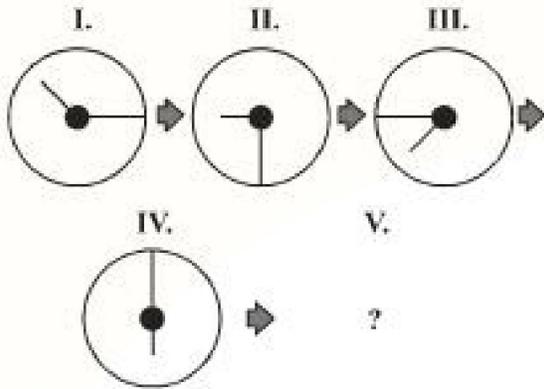


64.

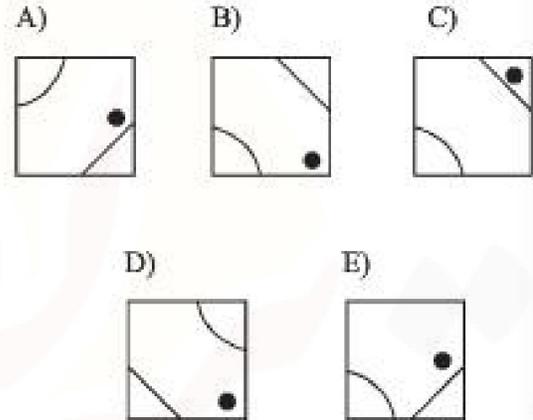
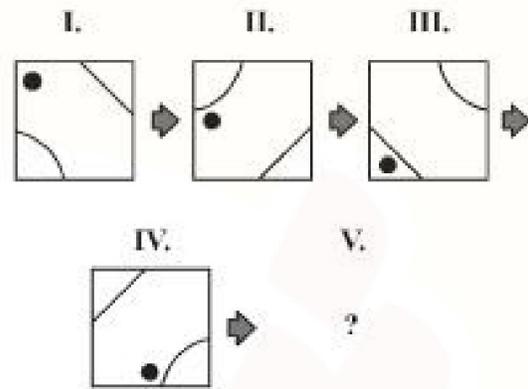
Aşağıdaki şekillerden hangisi farklıdır?
Which of the following figures is different?



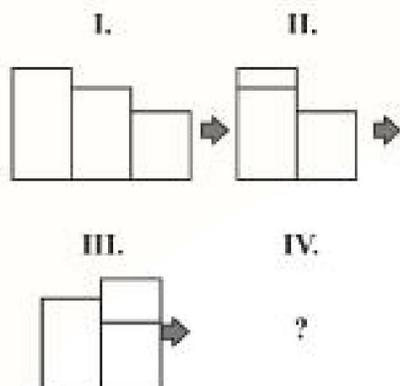
65.



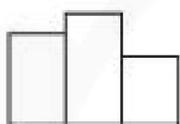
66.



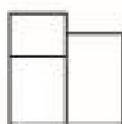
67.



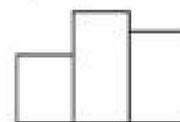
A)



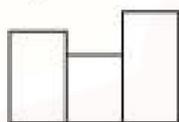
B)



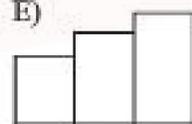
C)



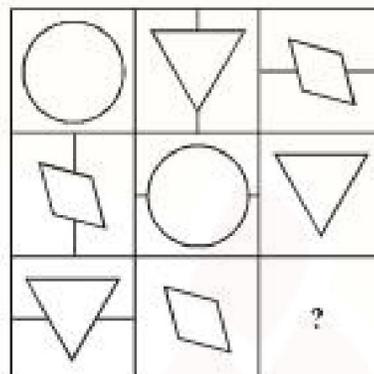
D)



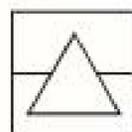
E)



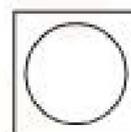
68.



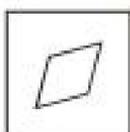
A)



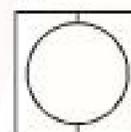
B)



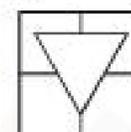
C)



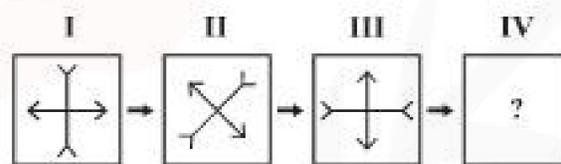
D)



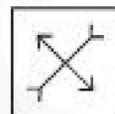
E)



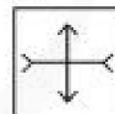
69.



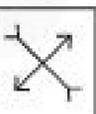
A)



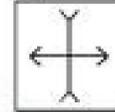
B)



C)



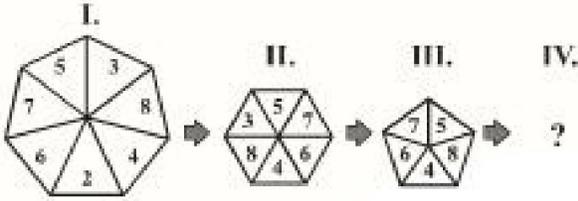
D)



E)

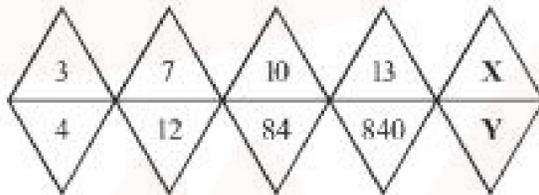


70.



- A)  B)  C) 
D)  E) 

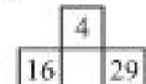
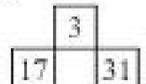
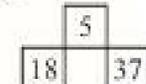
71.



- A) X=4, Y=5460
B) X=16, Y=10920
C) X=32, Y=21840
D) X=64, Y=5460
E) X=4, Y=10920

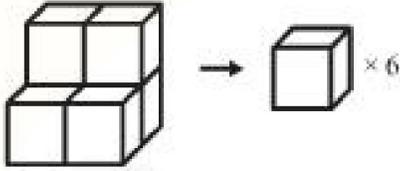
72.

5	2	3	10
6	4	1	11
1	9	?	12
12	?	6	?

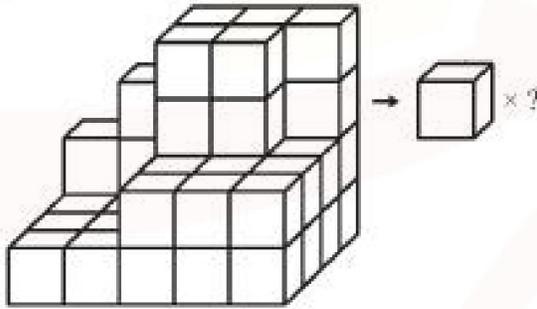
- A)  B) 
C)  D) 
E) 

73., 74. ve 75. soruları aşağıdaki örneğe göre cevaplayınız.

Answer the questions 73, 74 and 75 according to the given sample.



73.



A) 44

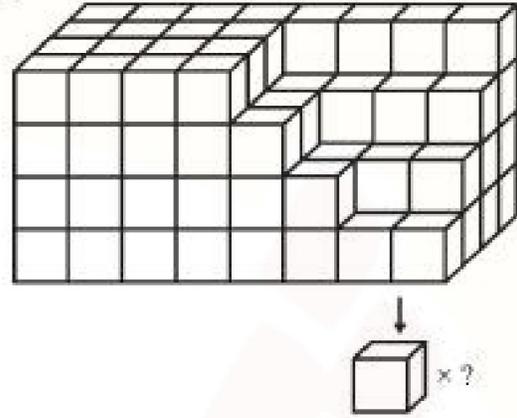
B) 45

C) 46

D) 47

E) 48

74.



A) 100

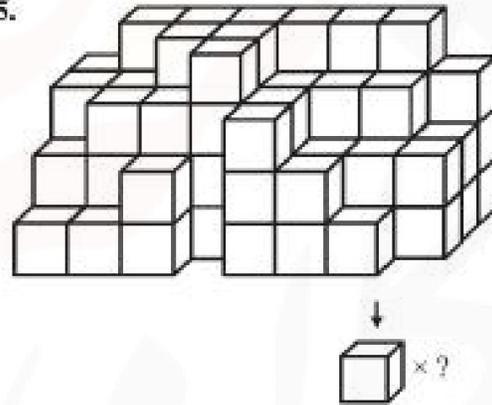
B) 102

C) 104

D) 108

E) 110

75.



A) 80

B) 82

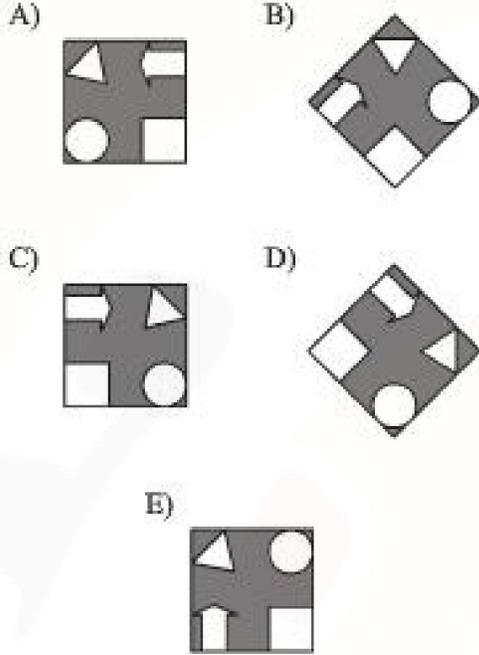
C) 86

D) 90

E) 94

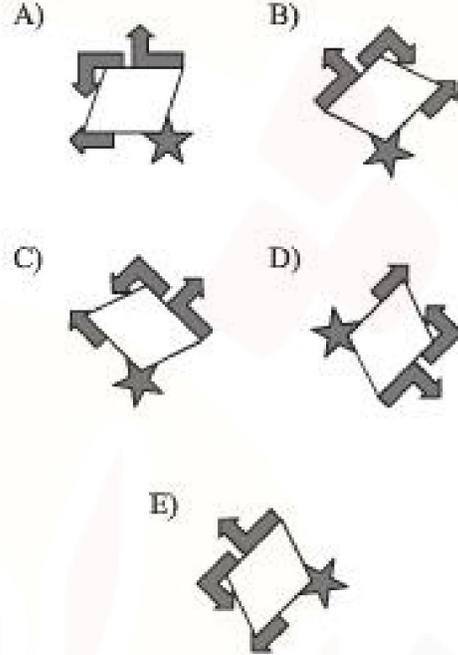
76.

Aşağıdaki şekillerden hangisi farklıdır?
Which of the following figures is different?



77.

Aşağıdaki şekillerden hangisi farklıdır?
Which of the following figures is different?



RULES TO BE FOLLOWED

1. It's strictly forbidden to bring cellular (mobile) phones into the examination hall. Also forbidden are any other kind of electronic or communications equipment (other than watches that only show time), weapons, explosive materials, scrap paper, notebooks, books, dictionaries and related instruments, slide-rules, compasses, protractors, rulers, and the like. Any violators of these rules will have their examinations cancelled.
2. The time given to answer the items is 90 minutes (1,5 h).
3. No candidate who has submitted his/her examination paper to a person in charge and leaves the examination hall, for any reason whatsoever, will be allowed to re-enter the hall.
4. Students will NOT be allowed to leave the examination room for any reason. Students are NOT permitted to leave the examination room within the first thirty (30) minutes after the commencement of the examination and fifteen (15) minutes before the completion of the examination. Students who arrive within the first 30 minutes after the examination has commenced will NOT be allowed to take the examination.
5. During the test, it is forbidden to ask questions of or talk to those persons in charge. It is also against the rules of the examination for people in charge to converse or whisper to any candidates. Similarly, it is forbidden to ask another candidate for a pencil, eraser, or anything else.
6. During the examination, candidates are required to comply with all the directions given to them by the people in charge, who have the right to tell a candidate to change his/her seat. You must obey all instructions given to you. Otherwise, your name and application number will be taken, and your examination will be cancelled.
7. If during the test anyone is found cheating, trying to cheat, or helping someone else to cheat, his/her name and application number will be recorded, and his/her answer sheet will not be considered for evaluation. The people in charge are in no way required to warn candidates about cheating. This is the candidates' responsibility. During the examination, it is extremely important that you exercise extreme care in not letting your answer sheet be seen by another candidate.
8. It is important to fill in the necessary areas on the answer sheet. You must use only a soft lead pencil for writing your name and other information or marking answers. No type of pen may be used. Mark your answers only on the answer sheet. Answers marked in the test booklet will be ignored.
9. Once the test booklets have been distributed, you should check to see that no pages are missing and all pages are readable. You should inform the people in charge immediately in such an event so that your test booklet can be changed. Check whether the letter printed at the top of each page in the test booklet is the same as the letter printed on the cover. If you realize such a disparity later in the exam, you should ask those in charge for a new test booklet that makes the type you have been working on up to that time. Remember to mark the letter of the booklet on your answer sheet; otherwise, your exam will be invalid, since it will not be possible to evaluate it.
10. Before you begin to answer the questions, you must write your name, surname, candidate number, and examination hall number on the cover of your booklet. Following the examination, all test booklets are collected and inspected. If even one page of a test booklet is missing, the answer sheet will not be considered for evaluation.
11. You may use the blank spaces on the pages of the test booklet as scrap paper for writing or calculating purposes.
12. No one, including a person in charge, is allowed to smoke a cigarette, or other tobacco product during the examination.
13. It is strictly forbidden to make a record of your answers on any paper and take it out.
14. Remember to give in your test booklet, answer sheet the people in charge before you leave the examination hall.

(Türkçesi bir sonraki sayfadadır.)



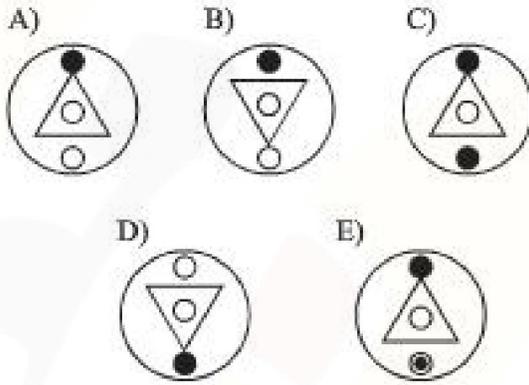
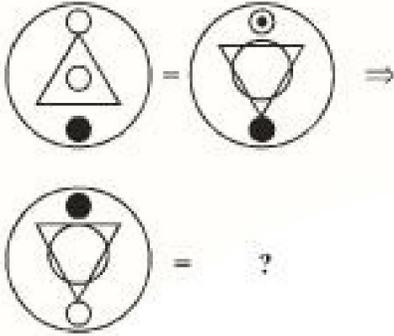
SINAVDA UYULACAK KURALLAR

1. Cep telefonu ile sınava girmek kesinlikle yasaktır. Çağrı cihazı, telsiz, vb. haberleşme araçları ile cep bilgisayar, saat fonksiyonu dışında fonksiyonu bulunan saat vb. her türlü bilgisayar özelliği bulunan cihazlarla ve ayrıca silah vb. teçhizatla, müsvedde kâğıdı, defter, kitap, sözlük, sözlük işlevi olan elektronik aygıt, hesap makinesi, hesap cetveli, pergel, açölçer, cetvel vb. araçlarla da sınava girmek yasaktır. Bu araçlarla sınava girmiş adayların yabancı uyruk numaraları mutlaka Salon Sınav Tutanağına yazılacak, bu adayların sınavları geçersiz sayılacaktır.
2. Bu sınavda verilen cevaplama süresi, 90 dakika (1,5 saat).
3. Sınav evrakını teslim ederek salonu terk eden aday, her ne sebeple olursa olsun tekrar sınava alınmayacaktır.
4. Sınav sırasında herhangi bir nedenle dışarı çıkmak yasaktır. Sınavın başlamasını izleyen ilk 30 dakika ve sınav süresinin son 15 dakikası içinde, sınavlarını tamamlasalar bile hiçbir adayın salondan çıkmasına izin verilmeyecektir. Sınavın başlamasını izleyen ilk 30 dakikadan sonra hiçbir aday sınava alınmaz.
5. Sınav süresince görevlilerle konuşmak ve onlara soru sormak yasaktır. Aynı şekilde görevlilerin de adaylarla yakından ve alçak sesle konuşmaları; ayrıca, adayların birbirinden kalem, silgi vb. şeyleri istemeleri kesinlikle yasaktır.
6. Sınav sırasında görevlilerin her türlü uyarılarına uymak zorundasınız. Gerekliğinde görevliler oturduğunuz yerleri de değiştirebilir. Sınavınızın geçerli sayılması, her şeyden önce sınav kurallarına uymanıza bağlıdır. Kurallara aykırı davranışta bulunur ve yapılacak uyarılara uymazsanız kimliğiniz tutanağa yazılacak ve sınavınız geçersiz sayılacaktır.
7. Sınav sırasında kopya çeken, çekmeye girişen, kopya veren, kopya çekilmesine yardım edenlerin kimlik bilgileri Salon Sınav Tutanağına yazılacak ve bu adayların sınavları geçersiz sayılacaktır. Görevliler kopya çekmeye veya vermeye çalışanları uyararak zorunda değildir. Sorumluluk size aittir. Sınav sırasında cevap kâğıdınızı başkaları tarafından görülmeyecek şekilde tutmanız sizin için son derece önemlidir.
8. Cevap kâğıdında ilgili alanları doldurmanız gerekmektedir. Cevap kâğıdına yazılacak her türlü yazıda ve yapılacak bütün işaretlemelerde kurşun kalem kullanılacaktır. Tükenmez kalem ve dolma kalem kesinlikle kullanılmayacaktır. Cevapların cevap kâğıdına işaretlenmiş olması gerekir. Soru kitapçığına işaretlenen cevaplar geçerli değildir.
9. Soru kitapçığınızı alır almaz, sayfaların eksik olup olmadığını, kitapçıkta basım hatalarının bulunup bulunmadığını kontrol ediniz. Soru kitapçığının sayfası eksik veya basımı hatalı ise değiştirilmesi için derhâl Salon Başkanına başvurunuz. Soru kitapçığının her sayfasında basılı bulunan soru kitapçığı türünün, kitapçığın ön kapağında basılı soru kitapçığı türüyle aynı olup olmadığını kontrol ediniz. Farklı olması durumunda Salon Başkanından yeni bir soru kitapçığı isteyiniz. Soru kitapçığının türünün değişik olduğunu daha sonra fark ederseniz, size o zamana kadar cevaplama yaptığınız türden, hatasız bir soru kitapçığı verilmesi için Salon Başkanına başvurunuz. Cevap kâğıdınıza, size verilecek olan soru kitapçığının türünü işaretlemeyi unutmayınız. Bu işaret konmamışsa sınavınız değerlendirilmesine olanak bulunmadığından sınavınız geçersiz sayılacaktır.
10. Cevaplamaya geçmeden önce size verilecek soru kitapçığının üzerinde ayrılan yere adınızı, soyadınızı, Aday Numarası ve bu salonun Salon Numarasını yazınız. Soru kitapçıkları toplanacak ve tek tek incelenecektir. Soru kitapçığının bir tek sayfası bile eksik çıkarsa sınavınız geçersiz sayılacaktır.
11. Soru kitapçığının sayfalarındaki boş yerleri müsvedde için kullanabilirsiniz.
12. Sınav sırasında, görevliler dahil, kimse sigara, pipo, puro vb. şeyleri içmeyecektir.
13. Soruları ve bu sorulara verdiğiniz cevapları ayrı bir kâğıda yazıp bu kâğıdı dışarı çıkarmanız kesinlikle yasaktır.
14. Sınav salonundan ayrılmadan önce, soru kitapçığınızı, cevap kâğıdınızı salon görevlilerine teslim etmeyi unutmayınız.

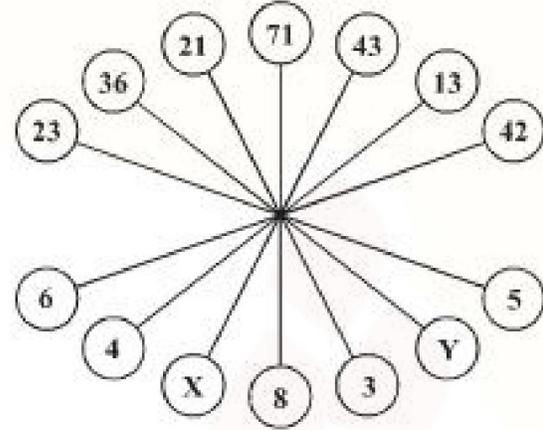
(İngilizcesi bir önceki sayfadadır.)



78.



79.



- A) $X=7, Y=9$ B) $X=2, Y=5$
 C) $X=1, Y=6$ D) $X=8, Y=2$
 E) $X=4, Y=1$

80.

3	9	1	2	8	3
9	?	?	2	1	9
1	?	?	3	9	1
2	1	9	3	8	2
8	3	9	1	2	8
3	8	2	1	9	3

- A)

8	3
8	2

 B)

3	8
2	8

 C)

8	2
8	3
- D)

2	8
3	8

 E)

8	8
3	2



