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1.

$$\frac{9^{3n+1}+27^{2n}}{3^{6n-1}}+\frac{4^{3n}-8^{2n-1}}{2^{6n-5}}=?$$

A) 18 B) 30 C) 36 D) 43 E) 58

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2.

$$\frac{79^3-21^3}{79.10^2+21^2}=?$$

A) 29 B) 58 C) 79 D) 98 E) 100

3.

$$\left(\frac{758+7,58}{75,8}\right):\left(\frac{587+5,87}{58,7}\right)=?$$

A) $\frac{1}{2}$ B) $\frac{3}{4}$ C) 1 D) $\frac{3}{2}$ E) $\frac{5}{2}$

4.

$3x-7y=7$

$2y-x=-4$

$x+y=?$

A) 10 B) 11 C) 13 D) 17 E) 19

5.

$P(x)=7x^3-2x^2+3x+5$

$Q(x)=x^3-x^2$

$P(x)Q(x)=a_6x^6+a_5x^5+a_4x^4+\ldots+a_1x+a_0$

$a_5=?$

A) -9 B) -6 C) 3 D) 6 E) 9

6.

$$\lim_{x\to-1}\frac{3x^2-2x+5}{x^3-7}=?$$

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

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7.

$$\frac{m^2+n^2-2mn}{\frac{1}{m}-\frac{1}{n}} : \frac{m+n}{\frac{1}{m.n}} = ?$$

A) $\frac{1}{n-m}$ B) $\frac{n-m}{n+m}$ C) $\frac{m+n}{m-n}$

D) $\frac{1}{m-n}$ E) $n-m$

8.

$a+b+c=7$

$2a+c-b=4$

$3a-2b+c=3$

$\frac{c-a}{b+1} = ?$

A) 1 B) 2 C) 3

D) 4 E) 5

9.

$(4{,}8 - 2{,}4 \,.\, 0{,}5) : (1{,}63 + 0{,}17) = ?$

A) 0,2 B) 1,5 C) 2

D) 2,4 E) 3,2

10.

$$\frac{2^{17}-2^{16}+2^{15}}{2^{16}-2^{15}} = ?$$

A) 2 B) 3 C) 5

D) 8 E) 12

11.

$x^3+3x^2+6x+3=(x^2+x+1)(x+a)+bx+c$

$c = ?$

A) –2 B) 0 C) 1

D) 3 E) 5

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12.

$$\log_5\left[5\log_2 2(\ln(x+1))\right]=1$$

$x=?$

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

D) $e+1$ E) e^2

13.

$$\begin{bmatrix}3 & -1\\ 1 & 0\end{bmatrix}\begin{bmatrix}a\\ b\end{bmatrix}=\begin{bmatrix}5\\ 2\end{bmatrix}$$

$a.b=?$

A) -2 B) -1 C) 0

D) 1 E) 2

14.

$$\frac{1}{\log_4 x}+\frac{1}{\log_6 x}+\frac{1}{\log_9 x}=2^{\log_8 27}$$

$x=?$

A) 4 B) 6 C) 7

D) 9 E) 10

15.

$x>y$

$x^2+y^2=\sqrt{5}$

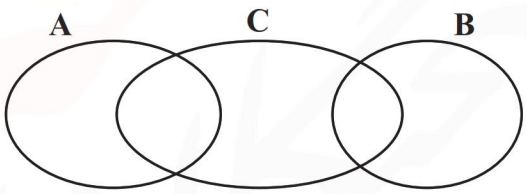
$xy=1$

$x^4-y^4=?$

A) 1 B) $\sqrt{3}$ C) $\sqrt{5}$

D) $\sqrt{6}$ E) 3

16.



$n(A)=30$

$n(B)=12$

$n(C)=24$

$n(C\setminus B)=20$

$n(A\cup C)=45$

$n((C\setminus A)\cup(B\setminus C))=?$

A) 18 B) 22 C) 23

D) 25 E) 32

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17.

$A=\{n:n<75\ ,\ n=3k\ ,\ k\in\mathbb{Z}^+\ \}$

$B=\{n:n<100\ ,\ n=4k\ ,\ k\in\mathbb{Z}^+\ \}$

$n(A\cup B)=?$

A) 40 B) 42 C) 43

D) 45 E) 48

18.

$$\left.\begin{array}{l}\frac{3}{x}\Delta\frac{y}{2}=6x-y+5\\ 6\ \Delta\ a=14\end{array}\right\}\Rightarrow a=?$$

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

D) $-\frac{5}{2}$ E) -3

19.

$\sqrt{a*b}=\sqrt{a}+\sqrt{b}$

$\frac{1}{a\oplus b}=\frac{1}{a}+\frac{1}{b}$

$(1*4)\oplus 9=?$

A) $\frac{2}{9}$ B) $\frac{4}{9}$ C) 1

D) $\frac{9}{4}$ E) $\frac{9}{2}$

20.

$\frac{a}{b}=\frac{c}{d}=12\ \Rightarrow\ \frac{a-b-c+d}{b-d}=?$

A) 10 B) 11 C) 12

D) 13 E) 16

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21.

$P(x) = 4x^2 - x + 12 \Rightarrow P(3x+1) \mid x+2$, ?

A) 110 B) 112 C) 117

D) 121 E) 125

22.

$f^{-1}(3) = 2$

$f(x+2) = \dfrac{x+a}{x+3}$

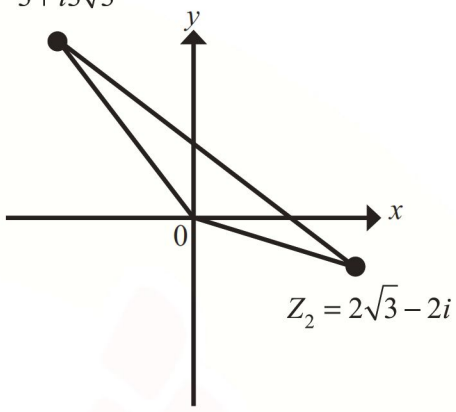
$a = ?$

A) 3 B) 4 C) 6

D) 8 E) 9

23.

$Z_1 = -3 + i3\sqrt{3}$



$A(\widehat{Z_1OZ_2}) = Area(\widehat{Z_1OZ_2}) = ?$

A) $3\sqrt{3}$ B) 6 C) $\dfrac{9\sqrt{3}}{2}$

D) 9 E) 12

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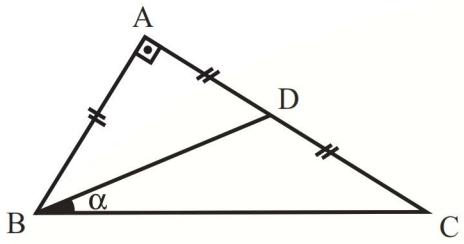
24.



$[AB] \perp [AC]$

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

$\tan\alpha = ?$

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

D) $\frac{3}{2}$ E) 2

25.

$f(x) = (\ln(x+1) + \sin 2x)^3 + xe^x$

$f'(0) = ?$

A) 0 B) 1 C) ln4

D) 2 E) e

26.

$f(x) = (x^2 - 3)^{10} \Rightarrow$

$\lim_{h\to 0} \frac{f(2+5h) - f(2+3h)}{h} = ?$

A) 20 B) 40 C) 80

D) 90 E) 100

27.

$(5+2i)(2-5i) - (2+5i)(5-2i) = ?$

A) $-42i$ B) $-50i$ C) $-58i$

D) -40 E) 40

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28.

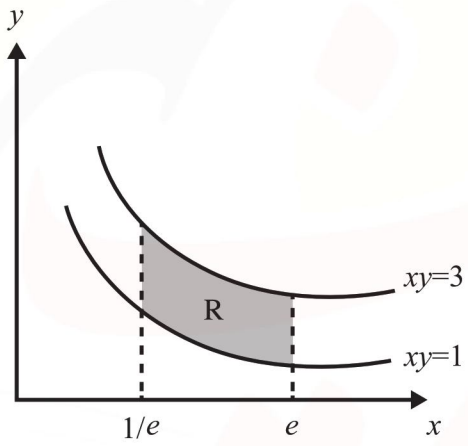
$$\int_0^1 (x^2 + 4x + a)\,dx = \frac{1}{3}$$

$a = ?$

A) -3 B) -2 C) -1

D) 2 E) 3

29.

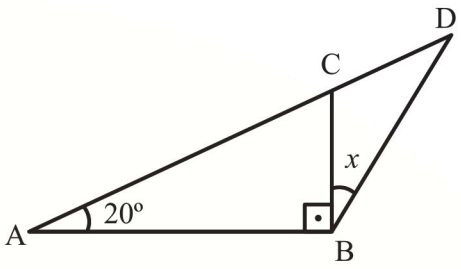


Alan (R) = Area (R) = ?

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

D) e E) 4

30.



$|AC| = 2|DB|$

$x = ?$

A) 45 B) 35 C) 30

D) 20 E) 15

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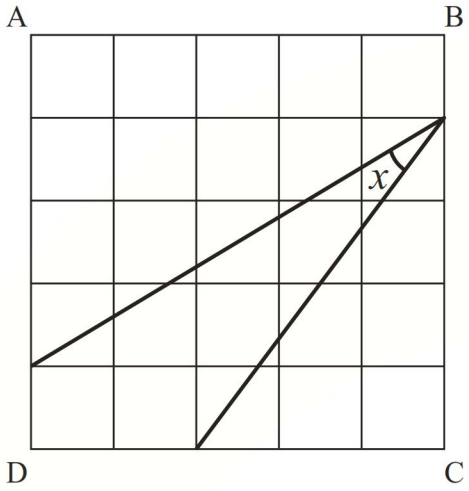
31.

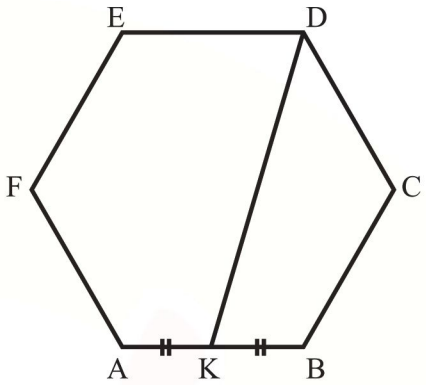


$\tan x = ?$

A) $\frac{11}{27}$ B) $\frac{1}{3}$ C) $\frac{1}{2}$

D) $\frac{9}{11}$ E) $\sqrt{3}$

32.



$|AB| = |BC| = |CD| = |DE| = |EF| = |FA| = 6$

$|DK| = ?$

A) $\sqrt{13}$ B) $3\sqrt{3}$ C) $6\sqrt{3}$

D) $3\sqrt{13}$ E) $6\sqrt{13}$

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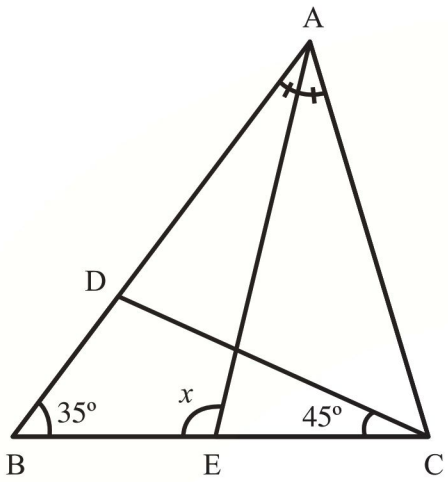
33.



$m(BAE) = m(EAC)$

$m(DBC) = 35^o$

$m(DCB) = 45^o$

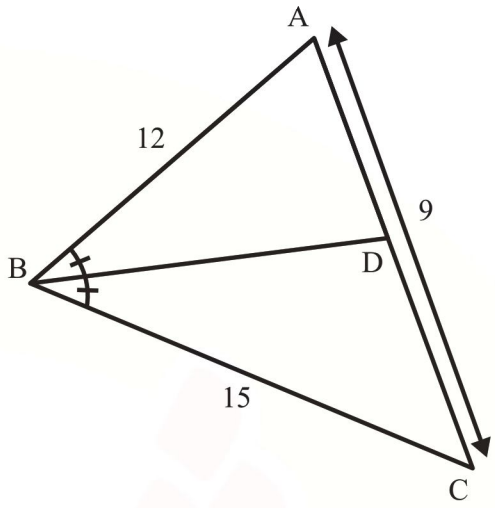
$|AD| = |DC|$

$m(AEB) = x = \ ?$

A) 100 B) 105 C) 110

D) 115 E) 120

34.



$m(ABD) = m(CBD)$

$|AB| = 12$

$|BC| = 15$

$|AC| = 9$

$|AD| = \ ?$

A) 4 B) 6 C) 8

D) 10 E) 12

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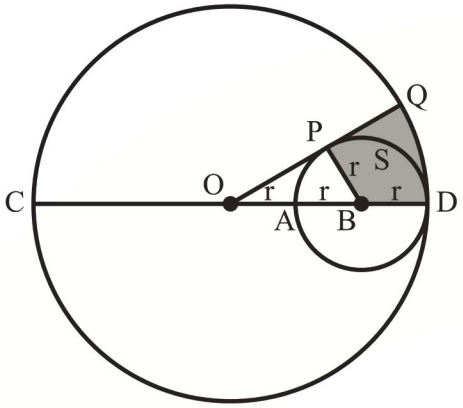
35.



$|OC| = |OD| = |OQ| = 3r$

$|OA| = |AB| = |BD| = |BP| = r$

Alan (S) = Area (S) = ?

A) $\frac{(3\pi - \sqrt{3})}{2} r^2$ B) $\frac{(3 - \pi\sqrt{2})}{4} r^2$

C) $\frac{(3\pi - 2\sqrt{3})}{4} r^2$ D) $\frac{(2\sqrt{3} - \pi)}{4} r^2$

E) $\frac{(\pi + \sqrt{3})}{2} r^2$

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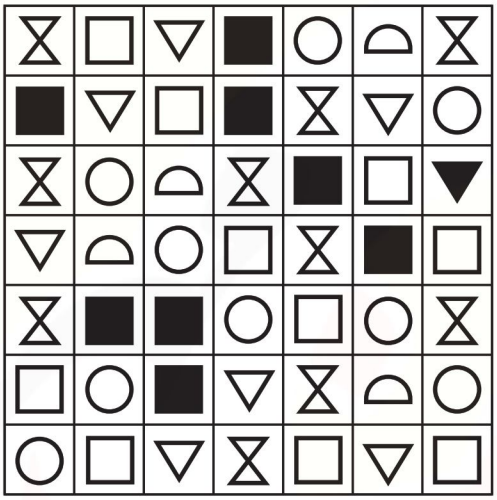
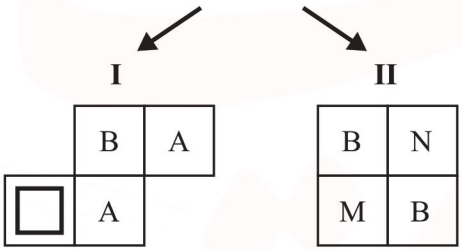
36.

7x7 sembolik matrisinde şekil içinde her harf birbirinden farklı bir şekle karşılık gelmektedir.

In the 7x7 symbolic matrix each letter in the figure corresponds to a different shape.





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 parts of the table above. According to this, which of the following should be used instead of M and N?

	M	N
A)		
B)		
C)		
D)		
E)		

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37.

Aşağıdaki tabloda *A, B, C, D, E* harfleri her satır ve sütunda birer kez olacak şekilde yerleştirildiğinde "*X*" yerine hangi harf gelmelidir?

If the letters A, B, C, D, E are used once in each row and column, which letter should be used instead of "X" in the table below?

A		*B*		*E*
	B			*D*
			X	
C		*D*		
		E		*B*

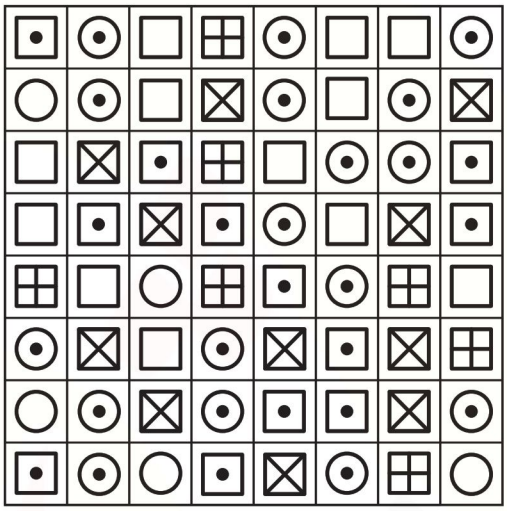
A) *A* B) *B* C) *C*

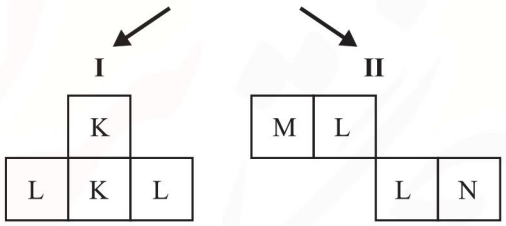
D) *D* E) *E*

38.

Her harf birbirinden farklı bir şekle karşılık gelmektedir.

There is a different symbol to represent each letter.





M = ? **N = ?**

	M	**N**
A)		
B)		
C)		
D)		
E)		

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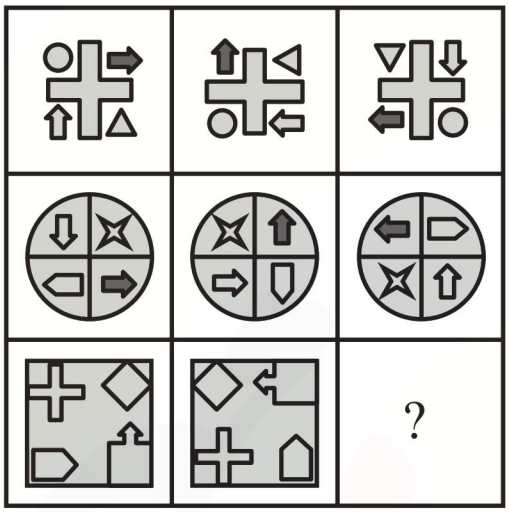
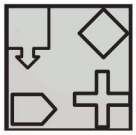
39.

Aşağıda verilen 3x3 şekil matrislerinde "?" yerine hangi şekil gelir?

Which shape should be used instead of "?" in the 3x3 matrix given below?



A) 

B)

C)

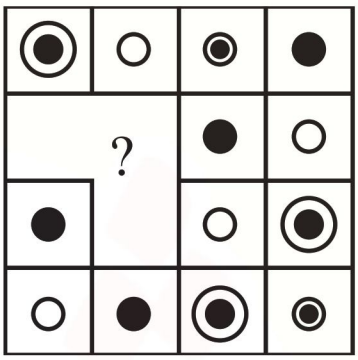
D)

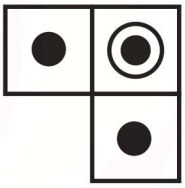
E)

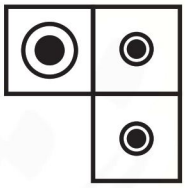
40.

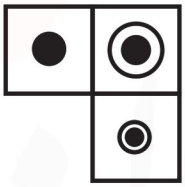
Soru işaretinin yerine getirilmesi gereken şekli bulunuz.

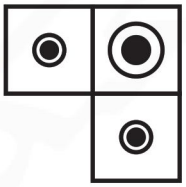
Find the shape which should be used instead of question mark.

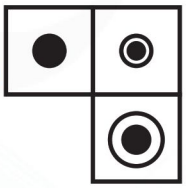


A) 

B) 

C) 

D) 

E) 

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41.

+	*a*	*b*	*c*
a		**c + 3**	
b			**a – 5**
c			

×	*a*	*b*	*c*
a			**5**
b			
c			

$a^2 + c^2 = ?$

Yukarıdaki çarpma ve toplama tablolarında *a, b* ve *c* harfleri birer sayının yerine kullanılmıştır. Buna göre, $a^2 + c^2$ kaçtır?

In the multiplication and addition tables above, the letters a, b and c each stand for a number. Accordingly, what is the value of $a^2 + c^2$?

A) 12 B) 16 C) 18 D) 24 E) 26

42.

+	*a*	*b*	*c*
a		**8**	
b			
c			

×	*a*	*b*	*c*
a			**30**
b	**15**		
c		**18**	

$c = ?$

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

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

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

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43.

×	a	b	c	d
a			**18**	
b	**8**			
c				**36**
d		**16**		

$$a \times b \times c \times d = ?$$

Yukarıdaki çarpma tablosunda *a, b, c* ve *d* harfleri birer sayının yerine kullanılmıştır. Buna göre $a \times b \times c \times d$ kaçtır?

In the multiplication table above, the letters a, b, c and d each stand for a number. Accordingly, what is the value of $a \times b \times c \times d$?

A) 270 B) 280 C) 288

D) 300 E) 306

44.

+	a	b
a		**6**
b		

×	a	b
a		
b	**6**	

$$a^3 + b^3 = ?$$

Yukarıdaki çarpma ve toplama tablolarında *a* ve *b* harfleri birer sayının yerine kullanılmıştır. Buna göre, a^3+b^3 kaçtır?

In the multiplication and addition tables above, the letters a and b each stand for a number. Accordingly, what is the value of a^3+b^3?

A) 84 B) 90 C) 96

D) 108 E) 112

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45.

Aşağıda ✻ işleminin verilen örneklerine göre x kaçtır?

According to the ✻ operation examples, what is the value of x?

$3 * 4 = 65$

$4 * 2 = 17$ $\qquad$ $5 * 2 = x$

$2 * 3 = 10$

A) 26 $\qquad$ B) 33 $\qquad$ C) 37

D) 50 $\qquad$ E) 82

46.

Sayı dizisinde "x" yerine kaç gelmelidir?

Which number should be used instead of "x" in the number sequence below?

1, 2, 5, 14, 41, x

A) 77 $\qquad$ B) 80 $\qquad$ C) 92

D) 120 $\qquad$ E) 122

47.

Sayı dizisinde "x" yerine kaç gelmelidir?

Which number should be used instead of "x" in the number sequence below?

1, 5, 19, 65, 211, x

A) 498 $\qquad$ B) 573 $\qquad$ C) 587

D) 665 $\qquad$ E) 695

48.

1	5	→ 1
2	3	→ 8
3	4	→ 81
5	2	→ 25
7	3	→ x

$x = ?$

A) 21 $\qquad$ B) 64 $\qquad$ C) 326

D) 343 $\qquad$ E) 2187

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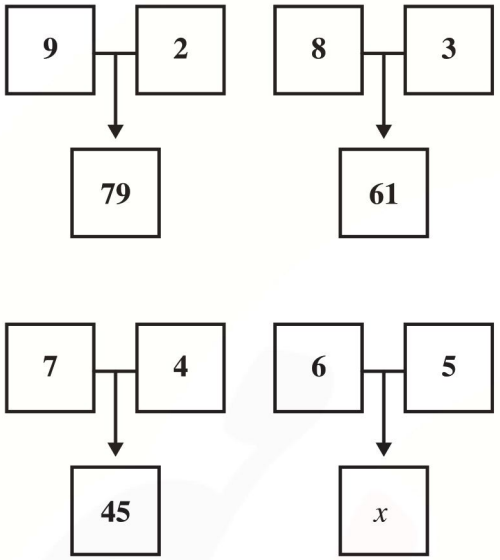
49.

Aşağıda "*x*" yerine kaç gelmelidir?

What should be used instead of "x" below?



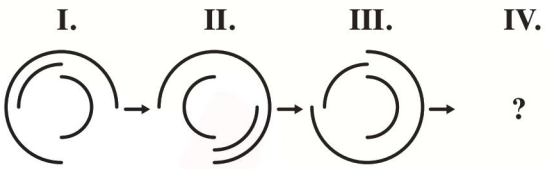
A) 28 B) 31 C) 33

D) 37 E) 39

50.

Soru işaretinin yerine getirilmesi gereken şekli bulunuz.

Find the shape which should be used instead of the question mark.



A)

B)

C)

D)

E)

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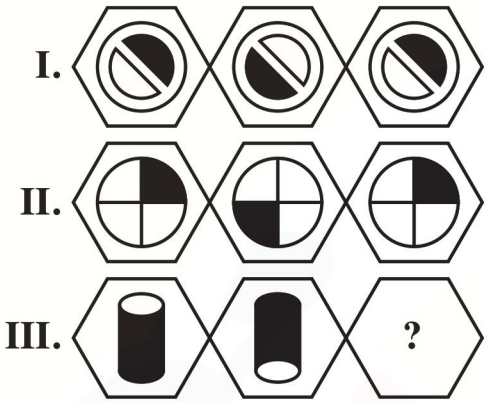
51.

I. ve II. satırda verilen ilişkiye göre III. satırda "?" olan yere aşağıdaki şekillerden hangisi gelmelidir?

According to the given relationship in rows I and II, which shape should be used instead of "?" in row III?



A)

B)

C)

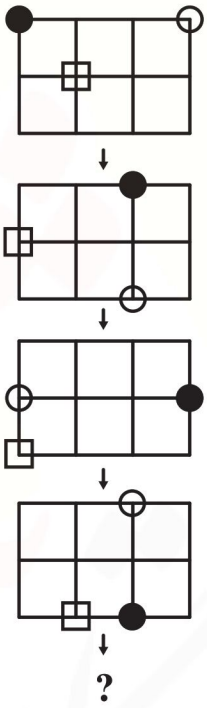
D)

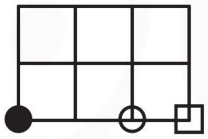
E)

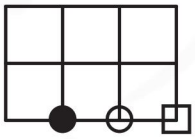
52.

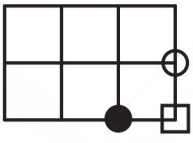
Aşağıdaki şekil dizisinde soru işaretinin yerine getirilmesi gereken şekli bulunuz.

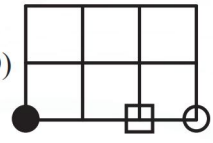
Find the figure which the question mark stands for in the figure sequence given below.

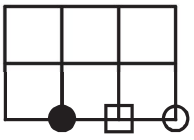


A) 

B) 

C) 

D) 

E) 

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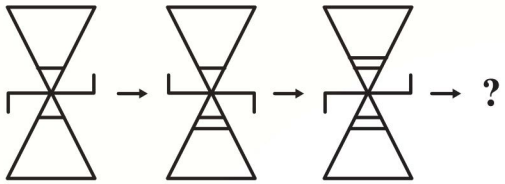
53.

Aşağıdaki şekil dizisinde soru işaretinin yerine getirilmesi gereken şekli bulunuz.

Find the figure which the question mark stands for in the figure sequence given below.



A)

B)

C)

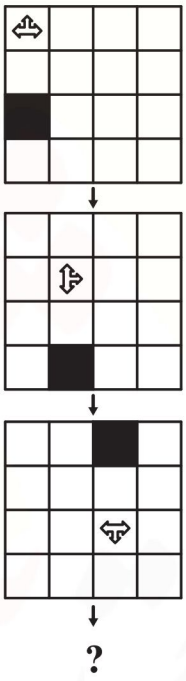
D)

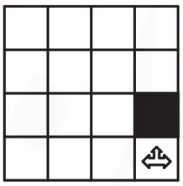
E)

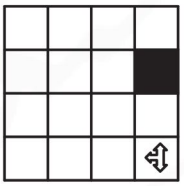
54.

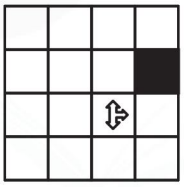
Aşağıdaki şekil dizisinde soru işaretinin yerine getirilmesi gereken şekli bulunuz.

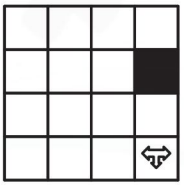
Find the figure which the question mark stands for in the figure sequence given below.

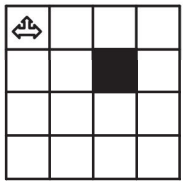


A) 

B) 

C) 

D) 

E) 

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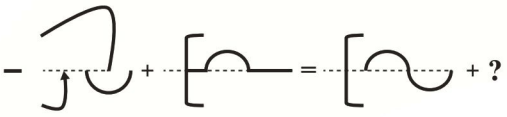
55.

Aşağıdaki şekil toplama işleminde soru işareti yerine hangi şekil gelir?

In the following shape assembly procedure, which shape should be used instead of the question mark?

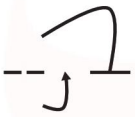


A)

B)

C)

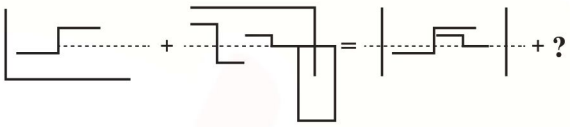
D)

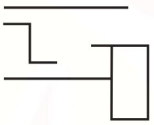
E) 

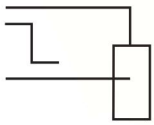
56.

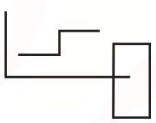
Aşağıdaki şekil toplama işleminde soru işareti yerine hangi şekil gelir?

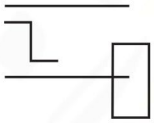
In the following shape assembly procedure, which shape should be used instead of the question mark?

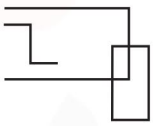


A) 

B) 

C) 

D) 

E) 

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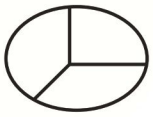
57.

Yukarda verilen parçalar kullanılarak oluşturulan şekil aşağıdakilerden hangisidir?

Which of the following shapes is obtained after combining the shapes given above?

A) 

B)

C)

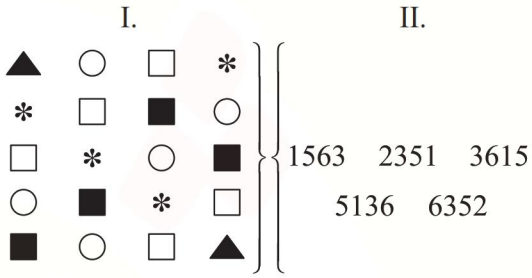
D)

E)

58.

I. gruptaki şekiller birer rakamla gösterilerek II. gruptaki sayılar elde edilmiştir. Soru işaretinin hangi sayıyla gösterildiğini bulunuz.

The numbers in group II *are obtained by denoting the shapes in group* I *with a digit. Find the number which corresponds to the question mark.*



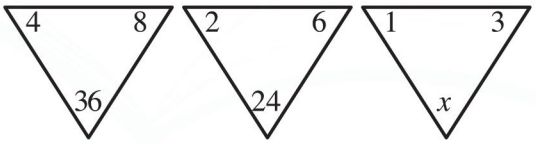
A) 1563 B) 2351 C) 3615

D) 5136 E) 6352

59.

Aşağıda verilen sayılar bir kurala göre yazılmıştır. Buna göre *x* kaçtır?

The numbers given below are written according to a rule. Accordingly, what is the value of x?



$x = ?$

A) 4 B) 8 C) 12

D) 16 E) 20

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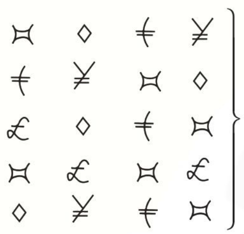
60.

I. gruptaki şekiller birer rakamla gösterilerek II. gruptaki sayılar elde edilmiştir. Soru işaretinin hangi sayıyla gösterildiğini bulunuz.

The numbers in group II are obtained by denoting the shapes in group I with a digit. Find the number which corresponds to the question mark.

I. II.



4646 1345 4513

5314 6514

= ?

A) 1345 B) 4513 C) 4646

D) 5314 E) 6514

61.

I. gruptaki harfler birer rakamla gösterilerek II. gruptaki sayılar elde edilmiştir. Soru işaretinin hangi sayıyla gösterildiğini bulunuz.

The numbers in group II are obtained by denoting the letters in group I with a digit. Find the number which corresponds to the question mark.

I. II.

A D E M
M O D A
S A R A
M E R A
D A M A

2183 7383 3512

5323 2653

S A R A = ?

A) 2183 B) 2653 C) 3512

D) 5323 E) 7383

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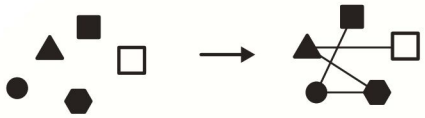
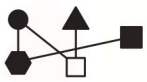
62.

I.

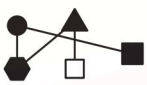
II. 

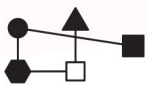
III. ?

A)

B) 

C)

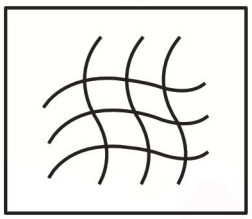
D) 

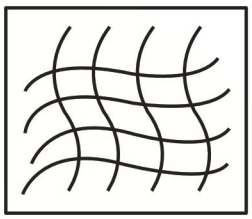
E) 

63.

Aşağıdaki şekillerden hangisi farklıdır?

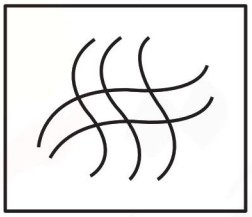
Which of the following shapes is different?

I. 

II. 

III.

IV.

V. 

A) I B) II C) III

D) IV E) V

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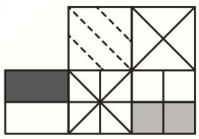
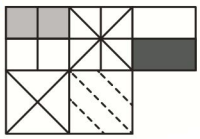
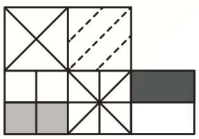
64.

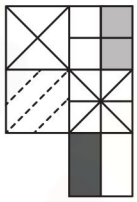
Aşağıdaki şekillerden hangisi farklıdır?

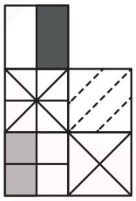
Which of the following shapes is different?

A) 

B) 

C) 

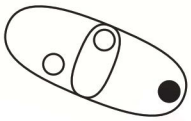
D) 

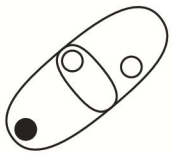
E) 

65.

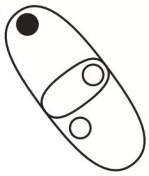
Aşağıdaki şekillerden hangisi farklıdır?

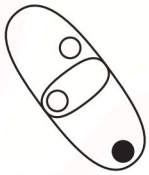
Which of the following shapes is different?

A) 

B) 

C)

D) 

E) 

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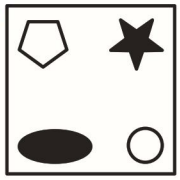
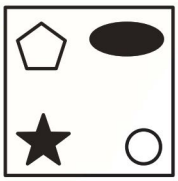
66.

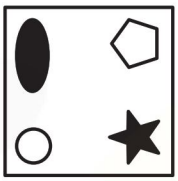
Aşağıdaki şekillerden hangisi farklıdır?

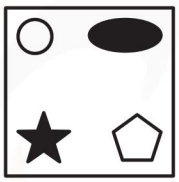
Which of the following shapes is different?

A) 

B)

C) 

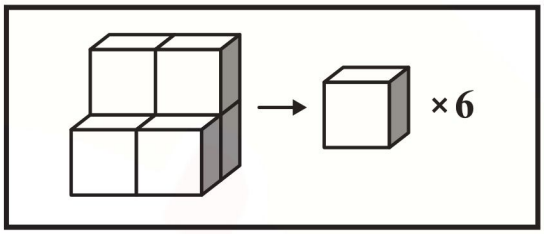
D) 

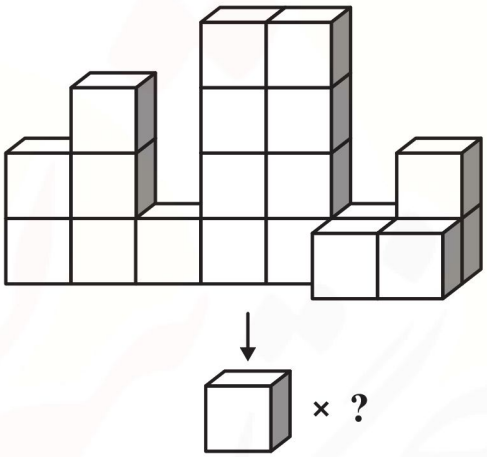
E) 

67.

Aşağıdaki örnekte verilen ilişkiye göre soruyu cevaplayınız.

Answer the question according to the relationship given in the example below.





A) 12 B) 14 C) 16 D) 19 E) 21

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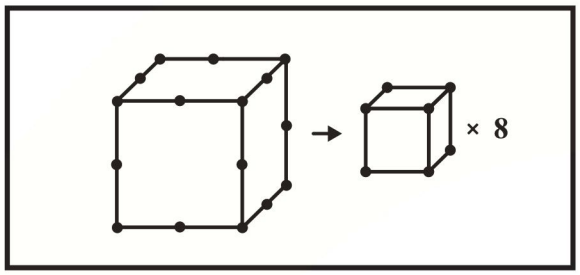
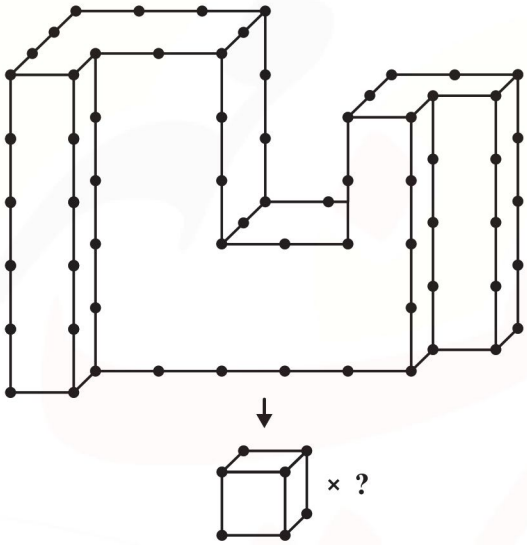
68.

Aşağıdaki örnekte verilen ilişkiye göre soruyu cevaplayınız.

Answer the question according to the relationship given in the example below.

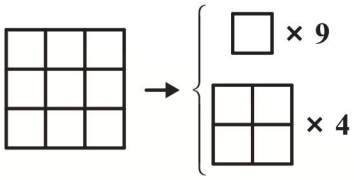


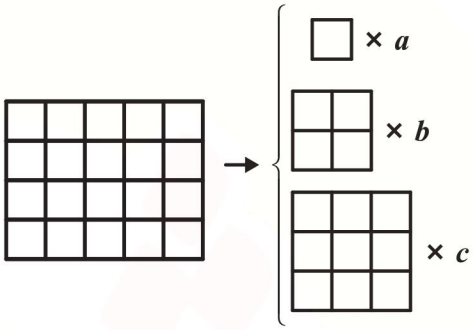


A) 48 B) 50 C) 51

D) 55 E) 58

69.





$a + b + c = ?$

A) 24 B) 28 C) 34

D) 38 E) 40

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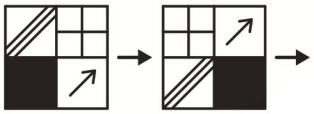
70.

I.

II.

III.  ?

A)

B)

C)

D)

E)

71.

I.

	a	b	
c			
			d

↓

$(1.2).a + (1.3).b + (2.1).c + (3.4).d$

$= 2a + 3b + 2c + 12d$

II.

	10		
5		**4**	

↓

54

III.

		1	**1**
2			
		5	

↓

?

A) 40 B) 50 C) 56

D) 80 E) 81

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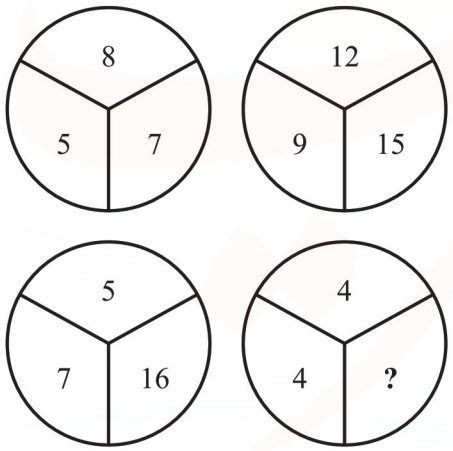
72.

2	2	1	1
4	4	2	2
3	0	1	5
9	2	4	?

A) 4 B) 5 C) 6

D) 7 E) 8

73.

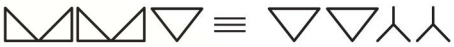


A) 6 B) 8 C) 10

D) 12 E) 14

74.

I.

II. 

III. ≡ ?

A)

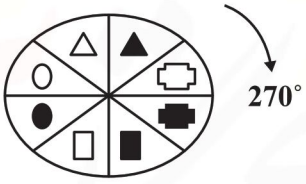
B)

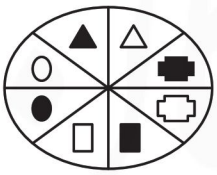
C)

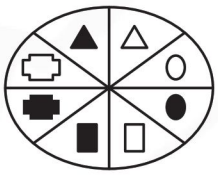
D)

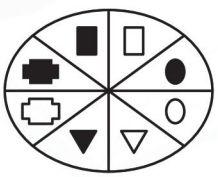
E)

75.

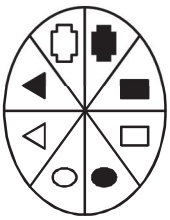


A) 

B) 

C) 

D)

E) 

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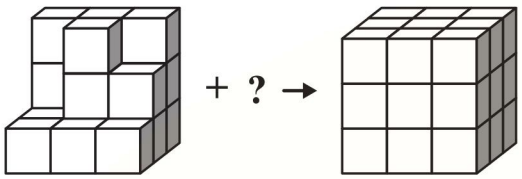
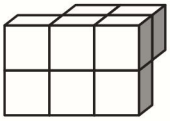
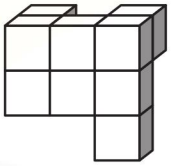
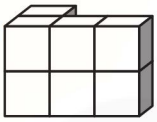
76.

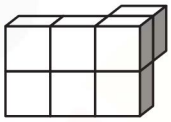
I. II. III.

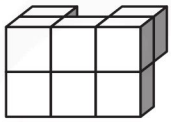


A) 

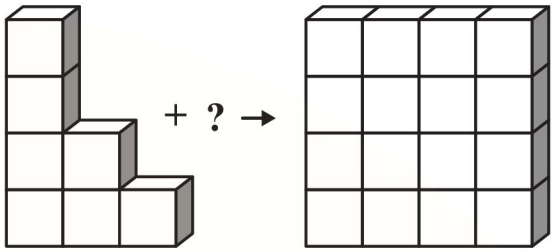
B) 

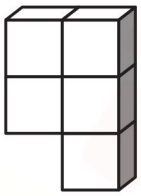
C) 

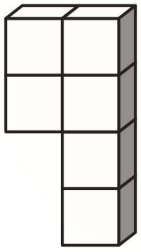
D) 

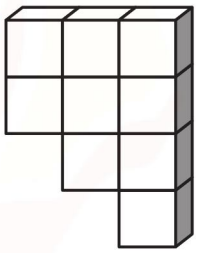
E) 

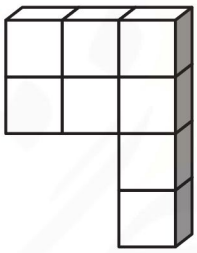
77.

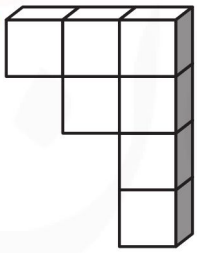


A) 

B) 

C) 

D) 

E) 

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78.

5 × ● = 2 × ▲ + ■

3 × ■ = ▲ + ●

● − ■ = ?

A) –2 B) 0 C) 1 D) 2 E) 4

79.

Aşağıdaki toplama tablosuna göre soru işareti yerine aşağıdakilerden hangisi gelir?

According to the addition table below, which shapes correspond to the question mark?

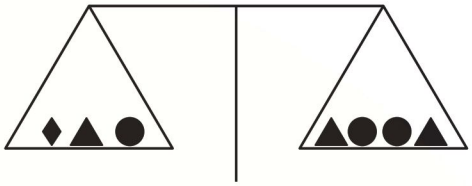
+	●●	▲	■
●			
▲	■■		
■		●●●	

■ + ● = ?

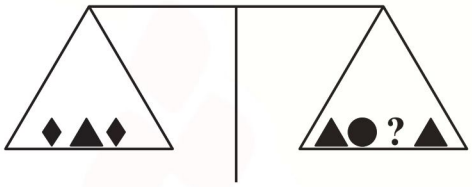
A) ●●● B) ▲●● C) ▲■■ D) ▲▲ E) ■ ▲

80.

I.



II.



Yukarıdaki terazilerin ikisi de dengede olduğuna göre, II. terazide soru işareti aşağıdakilerden hangisini göstermektedir?

As both of the scales above are balanced, which of the following does the question mark stand for in scale II?

A) ♦ B) ▲▲ C) ▲●● D) ♦● E) ●●

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A KİTAPÇIĞI

1 . E	21 . C	41 . E	61 . E
2 . B	22 . E	42 . D	62 . D
3 . C	23 . B	43 . C	63 . E
4 . E	24 . A	44 . D	64 . C
5 . A	25 . B	45 . B	65 . A
6 . B	26 . C	46 . E	66 . C
7 . B	27 . A	47 . D	67 . D
8 . A	28 . B	48 . D	68 . D
9 . C	29 . E	49 . B	69 . D
10 . B	30 . C	50 . E	70 . A
11 . C	31 . A	51 . D	71 . C
12 . B	32 . D	52 . D	72 . C
13 . E	33 . E	53 . D	73 . B
14 . B	34 . A	54 . B	74 . E
15 . C	35 . C	55 . E	75 . E
16 . C	36 . B	56 . D	76 . E
17 . B	37 . E	57 . C	77 . C
18 . E	38 . E	58 . D	78 . B
19 . E	39 . D	59 . C	79 . D
20 . B	40 . D	60 . E	80 . A

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