

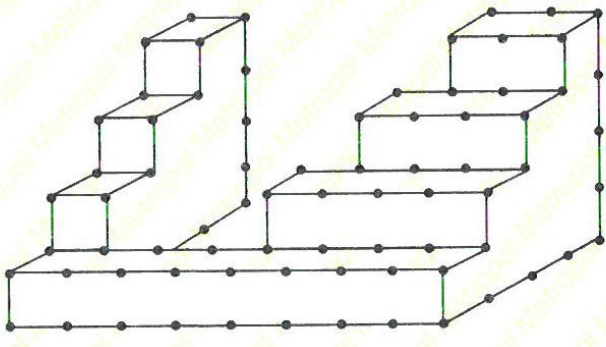
Multiple Choice

1) What is the value of SEFARET = ?

MELAMET  
KEFALET  
SELAMET  
SEFALET  
SEFARET

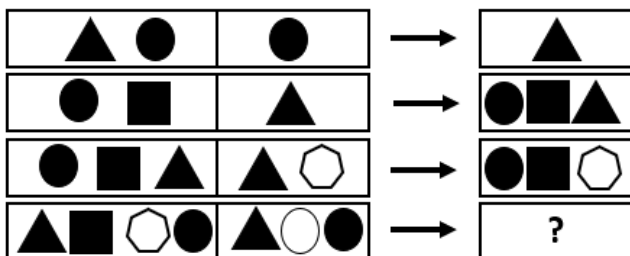
- A) 5460943
- B) 5460743
- C) 8460743
- D) 5470143

2) How many small cubes are in this figure?



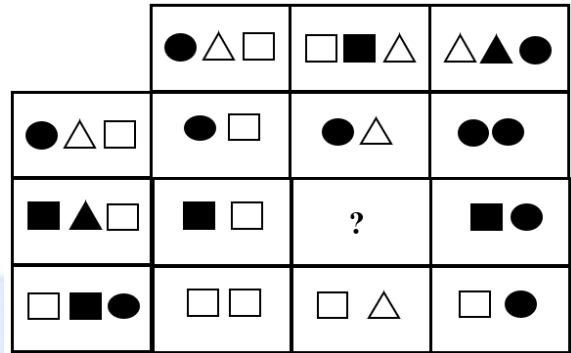
- A) 39
- B) 40
- C) 41
- D) 42

3) Which shapes should replace the question mark?



- A) Black square, White hexagon, Black circle, White oval
- B) Black triangle, Black square, White oval
- C) Black square, White hexagon, White oval
- D) Black triangle, White oval, Black circle

4) Which shapes should replace the question mark?



- A) White square, White square
- B) White square, Black triangle
- C) Black square, White triangle
- D) White square, Black square

5) What number should replace the question mark?

?, 25, 2, 16, 3, 9, 4, 4, 5, 1

- A) 1
- B) 29
- C) 6
- D) 36

6) Find the missing number.

7	5	12	18
17	15	32	48
14	12	26	39
4	6	10	?

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

7) What number should replace the question mark?

?, 50, 42, 23, 40, 32, 13, 30, 22, 3

- A) 33
- B) 34
- C) 35
- D) 36

8) According to this formula, solve problem III.

I.  $4 \cdot a \blacktriangle 2 \cdot b = a^2 + b^2$

II.  $a^3 \blacksquare b^2 = 8 \cdot a + 5 \cdot b$

III.  $(64 \blacksquare 25) + (16 \blacktriangle 8) = ?$

- A) 88                      B) 89  
C) 90                      D) 92

9) The tables above define addition and Multiplication, where a, b, c letters refer to a unique number. Then,  $b^2 + c^2 = ?$

	a	b	c
+			
a		c-8	
b			
c	b+2		

x	a	b	c
a			
b			
c		-6	

- A) 13                      B) 19  
C) 27                      D) 35

10) According to this formula, solve problem IV.

I.  $a \star b = a^b$

II.  $a \blacktriangleright b = (b^a)^2$

III.  $a \blacktriangleright b = (2^{a+b})$

IV.  $(2 \star 2) \blacktriangleright (1 \blacktriangleright 2) = ?$

- A) 16                      B) 125  
C) 32                      D) 256

11) According to the given rule, find next one.

I.  $a \triangle b = 2a - 3b$

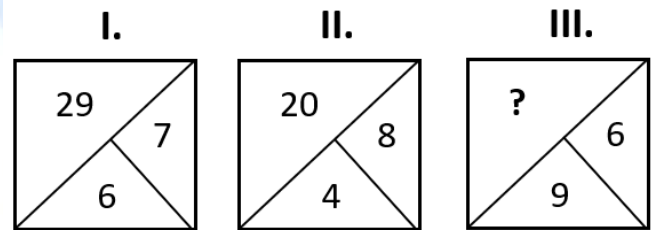
II.  $a \square b = ab + b^2$

III.  $a \circ b = ab$

IV.  $[((8 \triangle 5) \square 4) \circ 2] = ?$

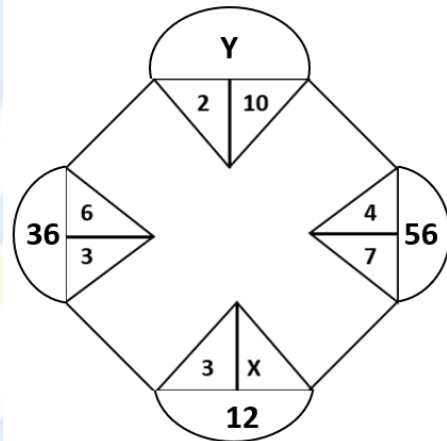
- A) 54                      B) 40  
C) 48                      D) 66

12) What number should replace the question mark?



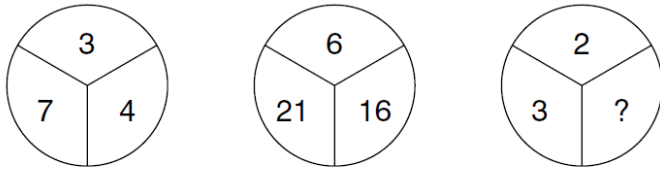
- A) 39                      B) 40  
C) 41                      D) 42

13) Find x, y =?



- A) 8, 8                      B) 2, 40  
C) 4, 10                      D) 2, 20

14) What number should replace the question mark?



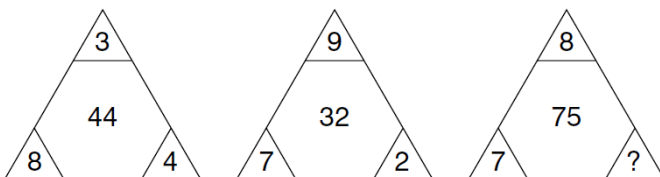
- A) 6                      B) 5  
C) 4                      D) 2

15) What number should replace the question marks?

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

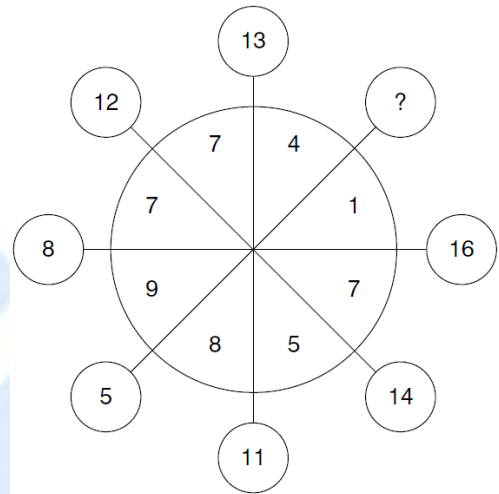
- A)      B)   
C)      D)

16) What number should replace the question mark?



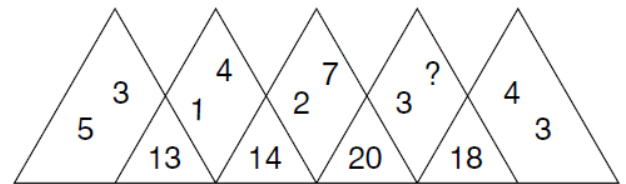
- A) 4                      B) 5  
C) 7                      D) 8

17) What number should replace the question mark?



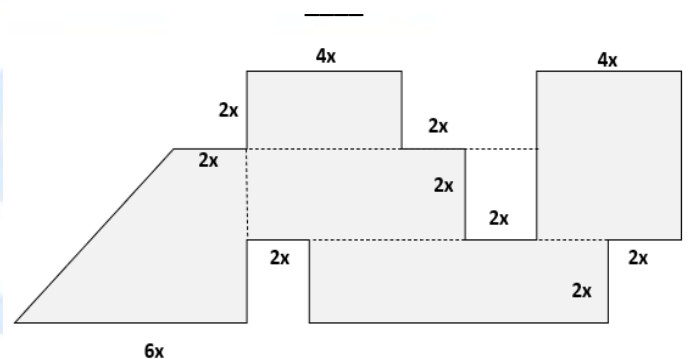
- A) 19                      B) 17  
C) 21                      D) 22

18) What number should replace the question mark?



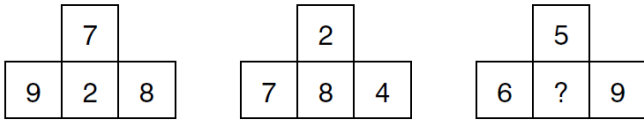
- A) 9                      B) 4  
C) 8                      D) 5

19) Find the shaded area in  $x^2$ .



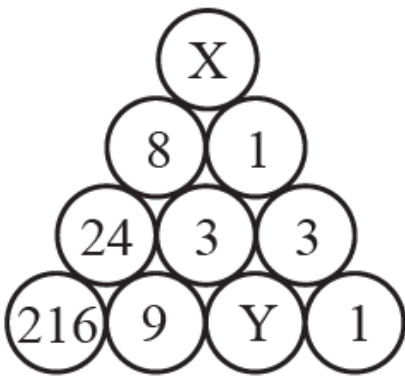
- A) 62                      B) 66  
C) 64                      D) 68

20) What number should replace the question mark?



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

21) Find  $X + Y = ?$



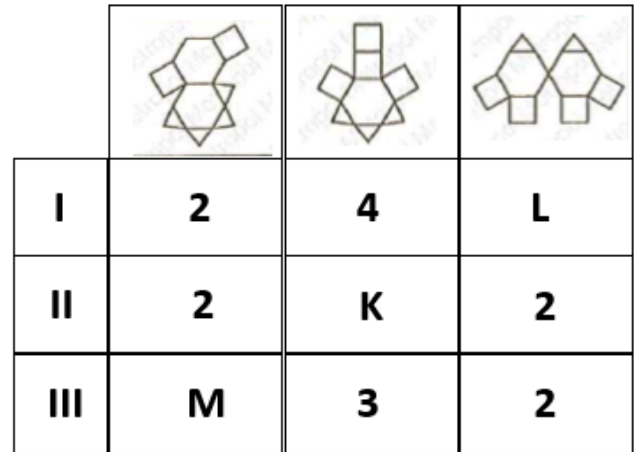
Answer: \_\_\_\_\_

22) If 1, 5, 13, 29, A, B then find

$B - A = ?$

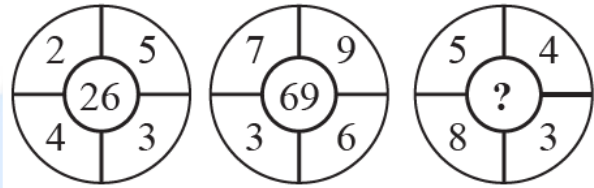
Answer: \_\_\_\_\_

23) Find  $K + L + M = ?$



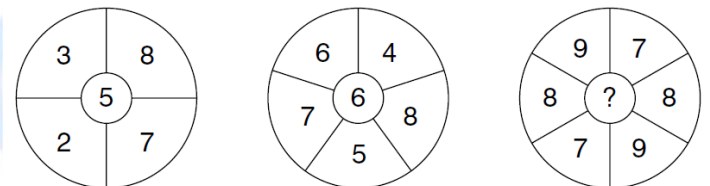
Answer: \_\_\_\_\_

24) What number should replace the question mark?



Answer: \_\_\_\_\_

25) What number should replace the question mark?



Answer: \_\_\_\_\_