

SAMPLE QUESTIONS - MATHEMATICS, CATEGORY 1

1) Choose correct answer.



$$201 - 201 = 0$$

- A) 150 B) 580 C) 129 D) 360 E) 280

2) Solve $2022 - 1998 + 137 + 1862 = ?$

- A) 2018 B) 2022 C) 2023 D) 2003 E) 280

3) Find Highest Common Factor of 36 and 48

- A) 144 B) 12 C) 8 D) 6 E) 20

4) The sum of two numbers is 96. The bigger number is twice as large as the smallest number. Find the biggest number.

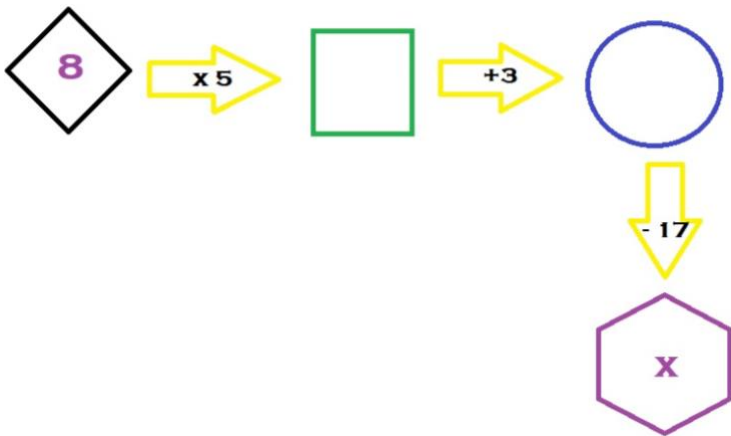
- A) 12 B) 24 C) 36 D) 48 E) 80

5) A mother is three times as old as her son is, and the sum of their ages is 36 years. How old is the son?



- A) 9 B) 12 C) 18 D) 27 E) 28

6) Find the value of x.



- A) 29 B) 43 C) 26 D) 32 E) 28

7) Chickens and rabbits are in one cage. In total, there are 35 heads and 94 feet. How many chickens are there?



- A) 9 B) 12 C) 18 D) 23 E) 25

8) There are a total of 14 rabbits and chickens in the farm. The animals have 32 legs altogether. How many rabbits were there in the farm?



- A) 2 B) 7 C) 8 D) 12 E) 20

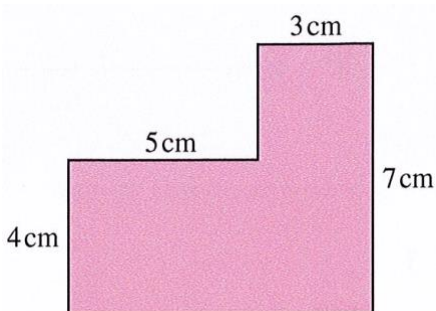
2) Solve $2022 - 1998 + 137 + 1862 = ?$

- A) 2018 B) 2022 C) 2023 D) 2003 E) 280

10) The cost of one chair is \$49,50. What is the cost of 5 chairs?

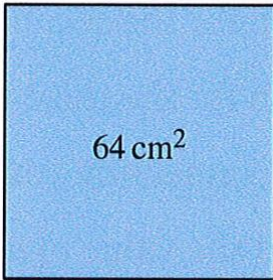
- A) \$247,5 B) \$237 C) \$54,5 D) \$247 E) \$280

11) Find area of this shape.



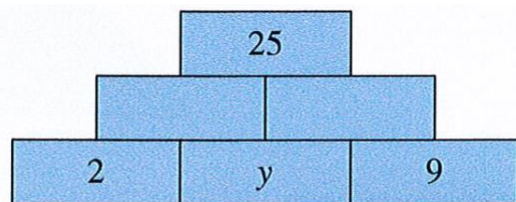
- A) 51cm^2 B) 48cm^2 C) 41cm^2 D) 36cm^2 E) 28cm^2

12) Area of this square is 64cm^2 . Find the length of one side of this square.



- A) 8cm B) 12cm C) 16cm D) 32cm E) 28cm

13) This is a number wall. To find the number in each block you add the numbers in two blocks below. Find the value of y in this wall.



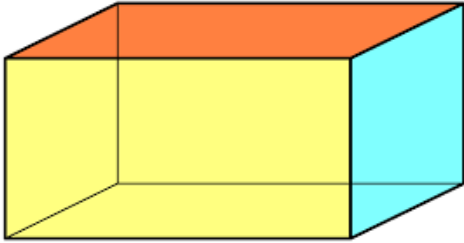
- A) 5 B) 6 C) 7 D) 8 E) 12

14) What is the sum of edges and vertices of a pyramid?



- A) 5 B) 8 C) 13 D) 9 E) 20

15) How many faces does the shape below have?

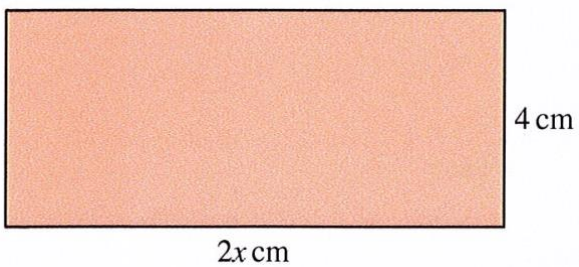


- A) 8 B) 6 C) 5 D) 4 E) 2

16) What is the next number in this sequence 4, 8, 12,, 20?

- A) 15 B) 18 C) 17 D) 16 E) 28

17) Perimeter of this rectangle is 44cm. Find the value of x .



- A) 8 B) 9 C) 10 D) 18 E) 20

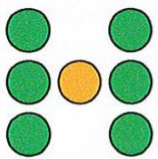
18) **Determine the next number in the sequence: 5, 13, 21, 29, __**

- A) 37 B) 38 C) 39 D) 42 E) 28

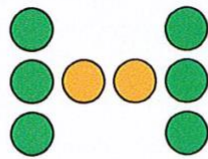
19) Find the next number: 9, 18, 27, 36, 45, ____

- A) 48 B) 54 C) 63 D) 72 E) 90

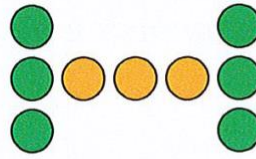
20) How many circles will be in pattern 50?



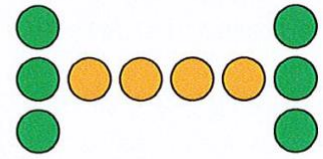
Pattern 1



Pattern 2



Pattern 3



Pattern 4

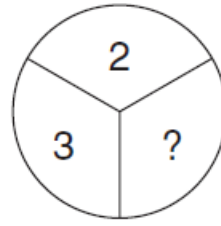
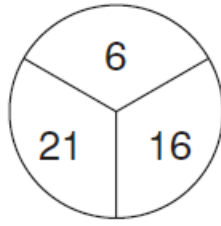
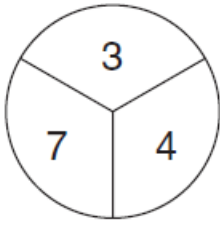
- A) 96 B) 69 C) 126 D) 56 E) 80

21) What number should replace the question mark?

3	8	4	9
2	4	3	6
6	7	8	2
4	2	1	?

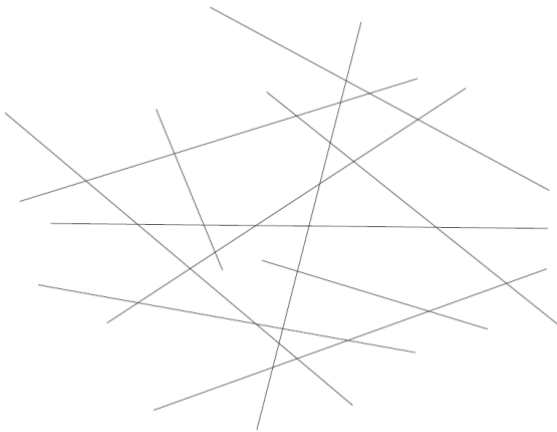
- A) 5 B) 6 C) 8 D) 9 E) 10

22) What number should replace the question mark?



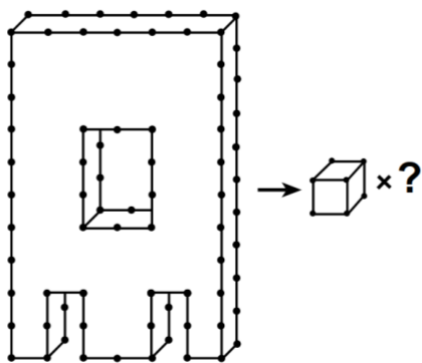
- A) 2 B) 3 C) 4 D) 6 E) 10

23) How many lines appear below?



- A) 11 B) 8 C) 10 D) 12 E) 20

24)



→  × ?

- A) 48 B) 50 C) 52 D) 54 E) 80

25) If $\frac{x}{y} = \frac{7}{4}$ and $x - y = \frac{3}{2}$, find $y = ?$

- A) -1 B) 1 C) 2 D) 4 E) 9

1.