

WHAT ARE MISSING NUMBERS?

Missing numbers are basically the numbers that have been missed in a sequence or a series. We can find those missing numbers by identifying the pattern. Whenever there are blanks in a series of numbers, a few numbers have been missed and we need to observe the pattern and fill in the blanks with suitable numbers. We can use the method of finding missing numbers to memorize the counting, multiplications tables, and learn the use of arithmetic operations. The activity of finding missing numbers helps the students to develop mental skills.

Question 1: In the following question, select the missing number from the given series.

5	15	10
4	17	9
10	?	10

- (a) 11
- (b) 12
- (c) 15
- (d) 10

Answer (D) The sum of three numbers in the horizontal row is equal to 30

$$5 + 15 + 10 = 30$$

$$4 + 17 + 9 = 30$$

$$10 + ? + 10 = 30$$

So in place of question mark is 10.

Question 2: In the following question, select the missing number from the given series.

3	7	21
5	6	30
8	1	?

- (a) 9
- (b) 8

(c) 16

(d) 12

Answer (B) The pattern followed is that the number in the last row is obtained by multiplying the other two.

$$3 \times 7 = 21$$

$$5 \times 6 = 30$$

$$8 \times 1 = 8$$

So in place of question mark is 8.

Question 3: In the following question, select the missing number from the given series.

49	169	484
81	144	625
16	25	?

(a) 37

(b) 47

(c) 48

(d) 25

Answer (B) The logic followed here is,

$$\sqrt{49} + \sqrt{81} \Rightarrow 7 + 9 = 16,$$

$$\sqrt{169} + \sqrt{144} \Rightarrow 13 + 12 = 25,$$

$$\sqrt{484} + \sqrt{624} \Rightarrow 22 + 25 = 47.$$

Hence, option B is the correct answer.

Question 4: In the following question, select the missing number from the given series.

?	12	9
36	108	72
9	9	8

- (a) 0
- (b) 4
- (c) 2
- (d) 6

Answer (B) The pattern followed is that in each column, the number at the middle is obtained by multiplying the other two.

$$12 \times 9 = 108$$

$$9 \times 8 = 72$$

$$? \times 9 = 36$$

So in place of question mark is 4.

