

Ratio & Proportion Worksheet – 3

1. 30, 40, 45, 60 are in proportion. Mark True / False.

- a) True b) False

2. 5, 7, 36, 49 are in proportion. Mark True / False.

- a) True b) False

3. If $A : B :: B : C$, then $B^2 = AC$. Mark True / False.

- a) True b) False

4. If A, B, C are said to be continued proportion, then B is known as 2nd proportional. Mark True / False.

- a) True b) False

5. If $A : B :: C : D$, then $(A \times D) \neq (B \times C)$. Mark True / False.

- a) True b) False

6. Two numbers are in the ratio 4 : 5. If their LCM is 270, then find the numbers.

- a) 120 & 130 b) 120 & 140
 c) 120 & 150 d) None of these

7. Two numbers are in the ratio 7 : 9. If the sum of the numbers is 800, then find the numbers.

- a) 350 & 540 b) 450 & 530
 c) 450 & 250 d) 350 & 450

8. Two numbers are in the ratio 5 : 7. After subtracting 5 from each of the numbers, the ratio becomes 2 : 3. Find the numbers.

- a) 25 & 53 b) 20 & 30
 c) 25 & 35 d) None of these

9. If $a : b = 3 : 5$, then find $(3a + 5b) : (5a + 7b)$.

- a) 25 : 17 b) 17 : 25
 c) 20 : 25 d) 27 : 20

10. If $a : b = 4 : 5$ and $2 : a = 3 : 8$, then find the value of b.

- a) $\frac{1}{5}$ b) $\frac{1}{10}$
 c) $\frac{20}{3}$ d) $\frac{3}{5}$

11. Find the value of A, when $2.5 : 8 = 7.5 : A$.

- a) 25
- b) 10
- c) 30
- d) 24

12. Two numbers are in the ratio $7 : 9$ and their sum is 192. Find the numbers.

- a) 84 & 108
- b) 48 & 108
- c) 84 & 180
- d) None of these

13. The ratio between two numbers is $3 : 5$. Find the numbers, if their HCF is 11.

- a) 3 & 5
- b) 33 & 55
- c) 45 & 55
- d) None of these

14. Rs. 600 is divided between A and B in such a way that B gets half of A. Find the shares of A and B.

- a) A = Rs. 400 and B = Rs. 100
- b) A = Rs. 200 and B = Rs. 400
- c) A = Rs. 400 and B = Rs. 200
- d) A = Rs. 300 and B = Rs. 300

15. What number has to be added to each term of $3 : 5$ to make the ratio $5 : 6$?

- a) 5
- b) 7
- c) 8
- d) 9

16. The mean proportional between 5 and 20 is _____.

- a) 11
- b) 8
- c) 12
- d) 10

17. The third proportional to 9 and 12 is _____.

- a) 15
- b) 16
- c) 17
- d) 18

18. A Square field side is 150 m wide. Find the ratio of side's length to it's perimeter.

- a) 1 : 4
- b) 2 : 3
- c) 1 : 3
- d) 4 : 1

19. If $2A = 3B = 5C$, then find $A : B : C$.

- a) 15 : 8 : 6
- b) 15 : 12 : 6
- c) 15 : 10 : 6
- d) None of these

20. If $7 : x :: 35 : 55$, then x is equal to _____.

a) 10

b) 11

c) 40

d) None of these