

Multiple Choice Questions on Ratio and Proportion

Practice the multiple choice questions on ratio and proportion. The questions are related to the basic properties of ratio and proportion.

Tick (✓) the correct answer:

1. A ratio equivalent to 3 : 7 is:

(i) 3 : 9; (ii) 6 : 10; (iii) 9 : 21; (iv) 18 : 49

2. The ratio 35 : 84 in simplest form is:

(i) 5 : 7; (ii) 7 : 12; (iii) 5 : 12; (iv) none of these

3. In a class there are 20 boys and 15 girls. The ratio of boys to girls is:

(i) 4 : 3; (ii) 3 : 4; (iii) 4 : 5; (iv) none of these

4. Two numbers are in the ratio 7 : 9. If the sum of the numbers is 112, then the larger number is:

(i) 49; (ii) 72; (iii) 63; (iv) 42

5. The ratio of 1.5 m to 10 cm is:

(i) 1 : 15; (ii) 15 : 10; (iii) 10 : 15; (iv) 15 : 1

6. The ratio of 1 hour to 300 seconds is:

(i) 1 : 12; (ii) 12 : 1; (iii) 1 : 5; (iv) 5 : 1

7. In $4 : 7 :: 16 : 28$, 7 and 16 are called

- (i) extreme terms; (ii) middle terms;
(iii) b middle and c extreme term; (iv) none of these

8. The first, second and fourth terms of a proportion are 16, 24 and 54 respectively. Then the third term is:

- (i) 36; (ii) 28; (iii) 48; (iv) 32

9. If 12, 21, 72, 126 are in proportion, then:

- (i) $12 \times 21 = 72 \times 126$; (ii) $12 \times 72 = 21 \times 126$; (iii) $12 \times 126 = 21 \times 72$; (iv) none of these

10. If x, y and z are in proportion, then:

- (i) $x : y :: z : x$; (ii) $x : y :: y : z$; (iii) $x : y :: z : y$;
(iv) $x : z :: y : z$

11. $7 : 12$ is equivalent to:

- (i) $28 : 40$; (ii) $42 : 71$; (iii) $72 : 42$; (iv) $42 : 72$

12. The length and breadth of a rectangle are in the ratio $3 : 1$. If the breadth is 7 cm, then the length of the rectangle is:

- (i) 14 cm; (ii) 16 cm; (iii) 18 cm; (iv) 21 cm

13. The value of m , if 3, 18, m , 42 are in proportion is:

(i) 6; (ii) 54; (iii) 7; (iv) none of these

14. Length and width of a field are in the ratio 5 : 3.

If the width of the field is 42 m then its length is:

(i) 100 m; (ii) 80 m; (iii) 50 m; (iv) 70 m

15. A picture is 60cm wide and 1.8m long. The ratio of its width to its perimeter in lowest form is

(i) 1 : 2 (ii) 1 : 3 (iii) 1 : 4 (iv) 1 : 8

Unitary method

1. Shivangi is suffering from anaemia as haemoglobin level in her blood is lower than the normal range. Doctor advised her to take one iron tablet two times a day. If the cost of 10 tablets is Rs 17, then what amount will she be required to pay for her medical bill for 15 days?

2. The quarterly school fee in Kendriya Vidyalaya for Class VI is Rs 540. What will be the fee for seven months?

3. In an election, the votes cast for two of the candidates were in the ratio 5 : 7. If the successful candidate received 20734 votes, how many votes did his opponent receive?

4. A metal pipe 3 metre long was found to weigh 7.6kg. What would be the weight of the same kind of 7.8m long pipe?

5 A farmer planted 1890 tomato plants in a field in rows each having 63 plants. A certain type of worm destroyed 18 plants in each row. How many plants did the worm destroy in the whole field?