Choose the correct options:

1. A ratio equivalent to 3 : 8 is:

(i) 3 : 9; (ii) 6 : 10; (iii) 9 : 24; (iv) 18 : 64

2. The ratio 35 : 98 in simplest form is:

(i) 5 : 8; (ii) 7 : 14; (iii) 5 : 14; (iv) none of these

3. In a class there are 24 boys and 15 girls. The ratio of boys to girls is:

(i) 8 : 5; (ii) 5 : 8; (iii) 8 : 3; (iv) none of these

4. Two numbers are in the ratio 9 : 7. 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 1.2 m to 10 cm is:

(i) 1 : 12; (ii) 12 : 10; (iii) 10 : 12; (iv) 12 : 1

6. The ratio of 1 hour to 6 min is:

(i) 1 : 10; (ii) 10 : 1; (iii) 1 : 5; (iv) 5 : 1

7. In 9 : 14 : : 18 : 28, 14 and 18 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 78 respectively. Then the third term is:

(i) 52; (ii) 39; (iii) 65; (iv) 26

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. 5 : 12 is equivalent to:

(i) 28 : 40; (ii) 45 : 71; (iii) 72 : 45; (iv) 30 : 72

12. The length and breadth of a rectangle are in the ratio 4 : 1. If the breadth is 7 cm, then the length of the rectangle is:

(i)   12 cm; (ii) 16 cm; (iii) 20 cm; (iv) 28 cm

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13. The value of m, if 3, 18, m, 48 are in proportion is:

(i) 6; (ii) 56; (iii) 8; (iv) none of these

14. Length and width of a field are in the ratio 5 : 3. If the width of the field is 51 m then its length is:

(i) 100 m; (ii) 80 m; (iii) 50 m; (iv) 85 m

15. Find the ratio of the price of bananas bought at ₹ 72 a dozen to the price of guavas bought at two for ₹ 20

(i)   3:5 (ii) 18: 5 (iii) 5:18 (iv) 72:20

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