ST. LAWRENCE HIGH SCHOOL
A Jesuit Christian Minority Institution

Sub: Arithmetic   **Class: 7**   **Date: 08.07.20**
Duration: 40 Min   **Worksheet 52**   **Full Marks: 15**
Ratio and Proportion

Choose the correct options:

1. A ratio equivalent to 5 : 12 is:

(i) 10 : 18; (ii) 15 : 36; (iii) 50 : 60; (iv) 20 : 40

2. The ratio 55 : 99 in simplest form is:

(i) 5 : 9; (ii) 3 : 11; (iii) 9 : 11; (iv) none of these

3. In a class there are 22 boys and 18 girls. The ratio of boys to girls is:

(i) 11 : 6; (ii) 5 : 2; (iii) 11 : 9; (iv) none of these

4. Two numbers are in the ratio 14 : 17. If the sum of the numbers is 155, then the larger number is:

(i) 45; (ii) 70; (iii) 85; (iv) 40

5. The ratio of 1 quintal to 1 metric tonne is:

(i) 1 : 15; (ii) 1 : 10; (iii) 1 : 12; (iv) 10 : 1

6. The ratio of 1 hour to 15 min is:

(i) 1 : 4; (ii) 4 : 1; (iii) 1 : 5; (iv) 5 : 1

7. In 9 : 36 : : 6 : 24, 36 and 6 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 18, 45 and 15 respectively. Then the third term is:

(i) 5; (ii) 3; (iii) 6; (iv) 2

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 : 2 is equivalent to:

(i) 28 : 40; (ii) 45 : 71; (iii) 72 : 45; (iv) 30 : 12

12. The length and breadth of a rectangle are in the ratio 4 : 3 . If the breadth is 27 cm, then the length of the rectangle is:

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

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13. The value of m, if 3, 16, m, 64 are in proportion is:

(i) 12; (ii) 54; (iii) 18; (iv) none of these

14. Length and width of a field are in the ratio 5 : 2. If the width of the field is 54 m then its length is:

(i) 130 m; (ii) 135 m; (iii) 150 m; (iv) 85 m

15. Find the ratio of the price of bananas bought at ₹ 72 a dozen to the price of apples bought at two for ₹ 36

(i)   1:5 (ii) 1: 4 (iii) 1:3 (iv) 2:3

Nilanjana Bhadra