



# ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution



**Sub: Arithmetic**  
**Duration: 40 Min**

**Class: 7**  
**Worksheet Solution 52**

**Date: 08.07.20**  
**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

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