



ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution



Sub: Arithmetic
Duration: 40 Min

Class: 7
Worksheet Solution 51
Ratio and Proportion

Date: 07.07.20
Full Marks: 15

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**

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