

## ST. LAWRENCE HIGH SCHOOL

## A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Arithmetic Class: 7 Date: 12. 05.20 Duration: 40 min Worksheet 20 Full Marks: 15

## RATIO AND PROPORTION

## **Choose the Correct options:**

- 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. The three numbers are in the ratio 1/2:2/3:3/4. The difference between greatest and smallest numbers is 36. Find the numbers.
- (i) 72, 84, 108; (ii) 60, 72, 96; (iii) 72, 84, 96; (iv) 72, 96, 108;