



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



**Sub: Arithmetic**

**Class: 7**

**Date: 01. 05.20**

**Duration: 40 min**

**Worksheet 16**

**Full Marks: 15**

## RATIO

**Choose the Correct options:**

- 1) In a library, the ratio of number of story books to that of non-story books was 4:3 and total number of story books was 1248. When some more story books were bought, the ratio became 5:3. Find the number of story books bought.
  - a. 312
  - b. 321
  - c. 936
  - d. 1560
- 2) Rs. 8400 is divided among A, B, C and D in such a way that the shares of A and B, B and C, and C and D are in the ratios of 2:3, 4:5 and 6:7 respectively. The share of A is
  - a. Rs. 1280
  - b. Rs. 8400
  - c. Rs. 8210
  - d. Rs. 1320
- 3) The ratio of the present age of father to that of son is 7:2. After 5 years their ages will be in the ratio of 8:3. The present ages of the father is
  - a. 35 years
  - b. 40 years
  - c. 30 years
  - d. 25 years
- 4) In a library, the ratio of number of story books to that of non-story books was 5:3 and total number of story books was 1560. When some more story books were bought, the ratio became 10:7. Find the number of story books bought.
  - a. 312
  - b. 156
  - c. 936
  - d. 1560
- 5) Price of each article of type P, Q, and R is Rs. 300, Rs. 180 and Rs. 120 respectively. Suresh buys articles of each type in the ratio 3:2:3 in Rs. 6480. How many articles of type Q did he purchase?
  - a. 8
  - b. 14
  - c. 20
  - d. None of the above
- 6) The ratio of market prices of wheat and paddy is 2:3 and the ratio of quantities consumed in a family is 5:4. Find the ratio of expenditure of wheat and paddy.
  - a. 6:5
  - b. 5:6
  - c. 1:1
  - d. 8:15
- 7) The three numbers are in the ratio  $\frac{1}{2} : \frac{2}{3} : \frac{3}{4}$ . The difference between greatest and smallest numbers is 36. Find the numbers.
  - a. 72, 84, 108
  - b. 60, 72, 96
  - c. 72, 84, 96

- d. 72, 96, 108
- 8) If  $A:B = 2:3$ ,  $B:C = 4:5$  and  $C:D = 6:7$ , then  $A:B:C:D$  is
- 18:24:30:35
  - 16:24:30:35
  - 16:22:30:35
  - 16:24:15:35
- 9) If  $a:b = 5:7$  and  $c:d = 2a:3b$ , then  $ac : bd$  is
- 20:38
  - 50:147
  - 10:21
  - 50:151
- 10) If  $x:y = 3:4$ , then  $(7x+3y):(7x-3y)$  is equal to
- 5:2
  - 4:3
  - 11:3
  - 37:19
- 11) The product of two positive numbers is 4752 and their ratio is 11:12. The smaller of these numbers is
- 72
  - 60
  - 66
  - 75
- 12) How to divide 3395 in ratio of 42 : 32 : 23?
- 1470, 1120 and 805
  - 1550, 1235 and 610
  - 1245, 1150 and 1000
  - 1764, 1022 and 529
- 13)  $a:b = 3:7$  and  $b:c = 9:5$ . What is  $a:b:c$ ?
- 3:15:5
  - 21:16:45
  - 3:7:5
  - 27: 63:35
- 14) Income ratio of Ramesh and Suresh is 5:6. Their spending ratio is 7:9. Ramesh saves 4000 and Suresh saves 3000. Income and spending respectively of Ramesh and Suresh are
- Ramesh - 25000, 21000; Suresh – 30000, 27000
  - Ramesh - 36000, 32000; Suresh – 30000, 27000
  - Ramesh - 30000, 27000; Suresh – 36000, 32000
  - None of the above
- 15) Ratio of two numbers is 3:8. On adding 5 to both numbers, the ratio becomes 2:5. Which is the larger number out of the two?
- 64
  - 120
  - 45
  - 105