



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



**Sub: Arithmetic**

**Class: 7**

**Date: 01. 05.20**

**Duration: 40 min**

**Worksheet Solution 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  $1/2 : 2/3 : 3/4$ . 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

a. 18:24:30:35

**b. 16:24:30:35**

c. 16:22:30:35

d. 16:24:15:35

9) If  $a:b = 5:7$  and  $c:d = 2a:3b$ , then  $ac : bd$  is

a. 20:38

**b. 50:147**

c. 10:21

d. 50:151

10) If  $x:y = 3:4$ , then  $(7x+3y):(7x-3y)$  is equal to

a. 5:2

b. 4:3

**c. 11:3**

d. 37:19

11) The product of two positive numbers is 4752 and their ratio is 11:12. The smaller of these numbers is

a. 72

b. 60

**c. 66**

d. 75

12) How to divide 3395 in ratio of 42 : 32 : 23?

**a. 1470, 1120 and 805**

b. 1550, 1235 and 610

c. 1245, 1150 and 1000

d. 1764, 1022 and 529

13)  $a:b = 3:7$  and  $b:c = 9:5$ . What is  $a:b:c$ ?

a. 3:15:5

b. 21:16:45

c. 3:7:5

**d. 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

**a. Ramesh - 25000, 21000; Suresh - 30000, 27000**

b. Ramesh - 36000, 32000; Suresh - 30000, 27000

c. Ramesh - 30000, 27000; Suresh - 36000, 32000

d. 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?

a. 64

**b. 120**

c. 45

d. 105