



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Arithmetic
Duration: 40 min

Class: 7
Worksheet 39

Date: 23.06.20
Full Marks: 15

RATIO AND PROPORTION

Choose the Correct options:

1. A and B together have Rs. 1210. If $\frac{4}{15}$ of A's amount is equal to of B's amount, how much amount does B have?

- A.Rs. 460
- B.Rs. 484
- C.Rs. 550
- D.Rs. 664

2. Two numbers are respectively 20% and 50% more than a third number. The ratio of the two numbers is:

- A. 2 : 5
- B. 3 : 5
- C. 4 : 5
- D. 6 : 7

3. A sum of money is to be distributed among A, B, C, D in the proportion of 5 : 2 : 4 : 3. If C gets Rs. 1000 more than D, what is B's share?

- A.Rs. 500
- B.Rs. 1500
- C.Rs. 2000
- D. None of these

4. Seats for Mathematics, Physics and Biology in a school are in the ratio 5 : 7 : 8. There is a proposal to increase these seats by 40%, 50% and 75% respectively. What will be the ratio of increased seats?

- A. 2 : 3 : 4
- B. 6 : 7 : 8
- C. 6 : 8 : 9
- D. None of these

5. In a mixture 60 litres, the ratio of milk and water 2 : 1. If this ratio is to be 1 : 2, then the quantity of water to be further added is:

- A. 20 litres
- B. 30 litres
- C. 40 litres
- D. 60 litres

6. The ratio of the number of boys and girls in a college is 7 : 8. If the percentage increase in the number of boys and girls be 20% and 10% respectively, what will be the new ratio?

- A. 8 : 9
- B. 17 : 18
- C. 21 : 22
- D. Cannot be determined

7. Salaries of Ravi and Sumit are in the ratio 2 : 3. If the salary of each is increased by Rs. 4000, the new ratio becomes 40 : 57. What is Sumit's salary?

- A. Rs. 17,000
- B. Rs. 20,000
- C. Rs. 25,500
- D. Rs. 38,000

8. If $0.75 : x :: 5 : 8$, then x is equal to:

- A. 1.12
- B. 1.2
- C. 1.25
- D. 1.30

9. The sum of three numbers is 98. If the ratio of the first to second is $2 : 3$ and that of the second to the third is $5 : 8$, then the second number is:

- A. 20
- B. 30
- C. 48
- D. 58

10. If Rs. 782 be divided into three parts, proportional to $\frac{1}{2} : \frac{2}{3} : \frac{3}{4}$, then the first part is:

- A. Rs. 182
- B. Rs. 190
- C. Rs. 196
- D. Rs. 204

11. The salaries A, B, C are in the ratio $2 : 3 : 5$. If the increments of 15%, 10% and 20% are allowed respectively in their salaries, then what will be new ratio of their salaries?

- A. $3 : 3 : 10$
- B. $10 : 11 : 20$
- C. $23 : 33 : 60$
- D. Cannot be determined

12. If 40% of a number is equal to two-third of another number, what is the ratio of first number to the second number?

- A. $2 : 5$
- B. $3 : 7$
- C. $5 : 3$
- D. $7 : 3$

13. The fourth proportional to 5, 8, 15 is:

- A. 18
- B. 24
- C. 19
- D. 20

14. Two number are in the ratio $3 : 5$. If 9 is subtracted from each, the new numbers are in the ratio $12 : 23$. The smaller number is:

- A. 27
- B. 33
- C. 49
- D. 55

15. In a bag, there are coins of 25 p, 10 p and 5 p in the ratio of $1 : 2 : 3$. If there is Rs. 30 in all, how many 5 p coins are there?

- A. 50
- B. 100
- C. 150
- D. 200