



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Arithmetic

Class: 7

Date: 23.06.20

Duration: 40 min

Worksheet Solutions 39

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