



ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution



Sub: Arithmetic
Duration: 40 Min

Class: 7
Worksheet Solutions 49
Ratio and Proportion

Date: 04.07.20
Full Marks: 15

Choose the correct options:

1. A and B together have Rs. 1210. If $\frac{2}{5}$ of A's amount is equal to $\frac{1}{4}$ 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