



## Concept\_HW\_G8\_ Problems on Direct and Inverse Proportion

1. Two numbers are in the ratio 3 : 4. If the sum of numbers is 63, find the numbers.
2. A bag contains \$510 in the form of 50 p, 25 p and 20 p coins in the ratio 2 : 3 : 4. Find the number of coins of each type.
3. Mother divided the money among Ron, Sam and Maria in the ratio 2 : 3 : 5. If Maria got \$150, find the total amount and the money received by Ron and Sam.
4. Two numbers are in the ratio 3 : 7. If their sum is 710, find the numbers
5. Find the ratio of A : B : C when
  - (a)  $A : B = 3 : 5$     $A : C = 6 : 7$
  - (b)  $B : C = 1/2 : 1/6$     $A : B = 1/3 : 1/5$
6. A sum of money is divided among Ron and Andy in the ratio 4 : 7. If Andy's share is \$616, find the total money.
7. Two numbers are in the ratio 5 : 7. On adding 1 to the first

and 3 to the second, their ratio becomes  $\frac{6}{9}$  . Find the numbers.

8. The difference between two numbers is 33 and the ratio between them is 5 : 2. Find the numbers.

9. The ages of A and B are in the ratio 3 : 5. Four years later, the sum of their ages is 48. Find their present ages.

10. Ramon has notes of \$100, \$50 and \$10 respectively. The ratio of these notes is 2 : 3 : 5 and the total amount is \$2,00,000. Find the numbers of notes of each kind.

11. If  $4A = 5B = 6C$ , find the ratio of A : B : C.

12. Divide \$430 into 3 parts such that A gets  $\frac{5}{4}$  of B and the ratio between B and C is 3 : 4.

13. A certain sum of money is divided among A, B, C in the ratio 2 : 3 : 4. If A's share is \$200, find the share of B and C.

14. Divide \$940 among A, B, C in the ratio  $\frac{1}{3} : \frac{1}{4} : \frac{1}{5}$

15. The ratio of number of male and female teachers in a school is 3 : 4. If there are 16 female teachers, find the number of male teachers.