Important Questions From Board Papers

1. A man covers a distance of 15 km in 3 hours partly by walking and partly by running. If he walks at 3 km/h and runs at 9 km/h, find the distance he covers by running.
   [Answer: 9 km]

2. A and B are two points 150 km apart on a highway. Two cars start with different speeds from A and B at same time. If they move in same direction, they meet in 15 hours. If they move in opposite direction, they meet in one hour. Find their speeds.
   [Answer: 80 km/h, 70 km/h]

3. A man invested ₹3500, part of it in a yearly interest rate of 4% and the rest at 5%. He receives a total annual interest of ₹153. How much did he invest at each rate?
   [Answer: ₹2200 at 4% and ₹1300 at 5%]

4. A boat Covers 32 km upstream and 36 km downstream, in 7 hours. Also it Covers 40 km upstream and 48 km downstream in 9 hours. Find the speed. Of boat in still water and that of the stream.
   [Answer: 10 km/h, 2 km/h]

5. The sum of the numerator and denominator of a fraction is 4 more than twice the numerator. If the numerator and denominator are increased by 3, they are in the ratio 2:3. Determine the fraction.
   [Answer: 5/9]

6. Raju used 2 plastic bags and 1 paper bag in a day which cost him ₹ 35. While Ramesh used 3 plastic bags and 4 paper bags per day, which cost him ₹ 65. Find the cost of each bag.
   [Answer: 15, 5]

7. 8 Women and 12 men can complete a work in 10 days while 6 women and 8 men can complete the same work in 14 days. Find the time taken by one woman alone and that one man alone to finish the work.
   [Answer: 1 woman in 140 days, 1 man in 280 days]

8. The ratio of incomes of two persons A and B is 3:4 and the ratio of their expenditures is 5:7. If their savings are ₹ 15,000 annually find their annual incomes.
   [Answer: ₹90000, ₹120000]

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