

8th Linear Equations of one or two Variables

CBSE TEST PAPER - 2

1. Two numbers are in the ratio 8:3. If sum of the numbers is 143, find the numbers
2. Four-fifths of a number is 10 more than two-thirds of the number. Find the number
3. If 10 be added to four times a certain number, the result is 5 less than five times the number. Find the number
4. The width of a rectangle is two-thirds its length. If the perimeter is 180m, find the dimensions of the rectangle
5. Rakhi's mother is four times as old as Rakhi. After 5 years, her mother will be three times as she will be then. Find their present ages
6. The length of a rectangle exceeds its breadth by 7cm. If the length is decreased by 4cm and the breadth is increased by 3cm, the area of the new rectangle is the same as the area of original rectangle. Find the length and breadth of the original rectangle
7. The difference between ages of two cousins is 10 years. 15 years ago, if the elder one was twice as old as the younger one, find their present ages.
8. Find three consecutive even numbers whose sum is 234
9. Twenty four is divided into two parts such that 7 times the first part added to 5 times the second part makes 146. Find each part
10. Three numbers are in ratio 4:5:6. If the sum of the largest and the smallest equals the sum of the third and 55, find the numbers
11. The altitude of a triangle is five-thirds the length of its corresponding base. If the altitude be increased by 4 cm, and the base decreased by 2cm, the area of the triangle remains the same. Find the base and altitude of the triangle
12. A streamer goes downstream from point A to B in 9h. From B to A, upstream, it takes 10h. If the speed of the stream is 1 km/h , what will be the speed of streamer in still water? Also find distance between the points A and B.

13. Divide 150 into three parts, such that the second number is five-sixths the first and the third number is four-fifths the second
14. The ages of Sonu and Monu are in the ratio 5:7. If Sonu were 9 years older and Monu 9 years younger, the age of Sonu would have been twice the age of Monu. Find their ages
15. Two years ago, Dalip was three times as old as his son and two years hence, twice his age will be equal to five times that of his son. Find their present ages. Check your solution
16. The distance between two stations is 425 km. Two trains start simultaneously from these stations on parallel tracks to cross each other. The speed of one of them is greater than that of the other by 5 km/h. If the distance between the two trains after 3 h of their start is 20 km, find the speed of each train. Check your solution
17. The length of a rectangle exceeds its breadth by 9 cm. If the length and breadth are each increased by 3 cm, the area of the new rectangle will be 84 cm² more than that of the given rectangle. Find the length and breadth of the given rectangle. Check your solution.
18. The digit in the tens place of a two-digit number is three times that in the units place. If the digits are reversed, the new number will be 36 less than the original number. Find the original number
19. A motor boat covers a certain distance downstream in a river in 5 hours. It covers the same distance upstream in 6 hours. The speed of water is 2 km/hr. Find the speed of the boat in still water.
20. Three prizes are to be distributed in a quiz contest. The value of the second prize is five sixths the value of the first prize and the value of the third prize is four – fifths that of the second prize. If the total value of three prizes is Rs. 150, find the value of each prize.
21. (a) Each side of a triangle is increased by 10 cm. If the ratio of the perimeters of the new triangle and the given triangle is 5 : 4, find the perimeter of the given triangle (b) . The difference between two positive integers is 36. The quotient, when one integer is divided by the other is 4. Find the two integers.