

8th Linear Equations of one or two Variables

CBSE TEST PAPER - 1

1. If you subtract $\frac{1}{2}$ from a number and multiply the result by $\frac{1}{2}$, you get $\frac{1}{8}$. What is the number?
[3/4]
2. The perimeter of a rectangular swimming pool is 154 metres. Its length is 2 m more than twice its breadth. What are the length and breadth of the pool [154]
3. The base of an isosceles triangle is $\frac{4}{3}$ cms. The Perimeter of the triangle is $4\frac{2}{15}$ cm. Find the length of other two sides of the triangle [7/5cm]
4. Sum of two numbers is 95. If one exceeds the other by 15 find the numbers [55]
5. Two numbers are in the ration 5:3. If they differ by 18, find these numbers [45, 27]
6. Three consecutive integers add up to 51. What are these integers? [16,17,18]
7. The sum of three consecutive multiples of 8 is 888. Find the multiple [288,296,304]
8. Three consecutive integers are as such when they are taken in increasing order and multiplied by 2, 3, and 4 respectively, they add up to 74. Find these numbers [7, 8, 9]
9. The ages of Rahul and Haroon are in the ratio of 5:7. Four years from now sum of their ages will be 56 years. Find their present age. [20,28yrs]
10. Baichung's father is 26 years younger than Baichung's grandfather and 29 years older than Baichung. The sum of their ages is 135. Find their ages [44,70,15yrs]
11. Lakshmi is a cashier in a bank. She has notes of denominations of Rs.100, 50 and 10 respectively. The ratio of number of these notes is 2:3:5 re-spectively. The total cash with Lakshmi is 4,00,000. How many notes of each denomination does she have? [200,00,500]

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13. The organizers in an essay competition decide that winner will get a prize of Rs. 100 and a participation who doesn't win gets a prize of Rs. 25. The total prize money distributed is Rs. 3,000. Find the number of winners if the total number of participants is 63. [19,14]
14. Sum of the digits of a two digit number is 9. When we interchange the digits the new number is 27 greater than the earlier number. Find the number [36]
15. One of the digits of a two digit number is three times the other digit. If you interchange the digits and add the resulting number to original number you get 88 as final result. Find the numbers. [26]
16. Sahoo's mother's present age is six times Sahoo's present age. Five year from now Sahoo's age will be one-third of his mother's age. Find their current age [5,25]
17. Half of a herd of deer are grazing in the field and three fourths of the remaining are playing nearby. The rest 9 are drinking water from the pond. Find the total number of deer in the herd [72]
18. A man's age is three times his son's age. Ten years ago his age was five times his son's age. Find their current age [20,60]
19. If in a rational number denominator is greater than numerator by 8. If you increase the numerator by 17 and decrease the denominator by 1, you get $\frac{3}{2}$ as result. Find the number [13/21]
20. The perimeter of a rectangular swimming pool is 154 m. Its length is 2m more than twice its breadth. What are the length and breadth of the pool? [25, 52]