

## 8th Linear Equations of one or two Variables

## CBSE TEST PAPER – 3

1. Amina thinks of a number and subtracts  $\frac{5}{2}$  from it. She multiplies the result by 8. The final result is 3 times her original number. Find the number
2. A positive number is 5 times another number. If 21 is added to both the numbers then one of the new numbers becomes twice of another new numbers. Find the original numbers.
3. 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.
4. 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.
5. 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.
6. There is a narrow rectangular plot. The length and breadth of the plot are in the ratio of 11:4. At the rate of Rs. 100 per metre it will cost village panchayat Rs.75000 to fence the plot. What are the dimensions of the plot.
7. Hasan buys two kinds of cloth materials for school uniform. Shirt material cost him Rs. 50 per metre and trousers material cost him Rs. 90 per metre. For every 2 metres of the trousers material he buys 3 metres of shirt material. He sells them at 12% and 10% profit respectively. His total sale is Rs. 36,660. How much trousers material did he buy? ( 200m)
8. 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.
9. 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.
10. Hari and Harry's age are in the ratio of 5:7. Four years later the ratio of their ages will be 3:4. Find their current age.
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 respectively. The total cash with Lakshmi is 4,00,000. How many notes of each denomination does she have?

12. I have total Rs 300 in coins of denominations of Rs.1, Rs.2, and Rs. 5. The number of Rs. 2 coins is 3 times the number of Rs. 5 coins. The total number of coins is 160. How many coins of each denomination are with me.

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.

14. 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.

15. 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.

16. 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.

17. Fifteen years from now Ravi's age will be 4 times his current age. What is his current age.

18. The sum of three consecutive multiples of 8 is 888. Find the multiple.

19. 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.

20. The perimeter of a rectangular swimming pool is 154 meters. Its length is 2m more than twice its breadth. What are the length and breadth of the pool?