

# JSUNIL TUTORIAL , SAMASTIPUR

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## 6<sup>th</sup> Linear Equation

1. The present age of Sahil's mother is three times the present age of Sahil. After 5 years their ages will add to 66 years. Find their present ages.
2. Bansi has 3 times as many two-rupee coins as he has five-rupee coins. If he has in all a sum of Rs 77, how many coins of each denomination does he have?
3. The difference between two whole numbers is 66. The ratio of the two numbers is 2 : 5. What are the two numbers?
4. Aman's age is three times his son's age. Ten years ago he was five times his son's age. Find their present ages.
5. Write statement as equation
  - (i) 25 exceeds a number by 7
  - (ii) 3 less than 4 times a number is 17
  - (iii) 5 subtracted from thrice a number is 16
  - (iv) twice a number subtracted from 19 is 11
6. Solve hit and trial
  - (i)  $11 + x = 19$
  - (ii)  $\frac{1}{2}x + 7 = 11$
  - (iii)  $2x + 4 = 3y$
  - (iv)  $z - 3 = 2z - 5$
7. Solve and check
  - (i)  $\frac{2m}{3} + 8 = \frac{m}{2} - 1$
  - (ii)  $\frac{3}{4}(x - 1) = x - 3$
  - (iii)  $3(x+6) + 2(x + 3) = 64$
8. If a number is tripled and result is increased by 5 we get 50. Find number?
9. Mrs. Goel is 27 yrs older than her daughter Rekha. After 8 yrs she will be twice as old as Rekha. Find their ages?
10. Find the two numbers such that one of them is five times the other and difference is 132?
11. Five times the price of a pen is Rs. 17 more than thrice its price. Find price of pen?
12. A man is 24 years older than his son. In two years, his age will be twice the age of his son. Find the present age of his son?
13. A number when added to its half gives 72. Find the number?
14. Find 3 consecutive natural numbers whose sum is 45.
15. When the smaller of two consecutive integers is added to three times the larger integer the result is 43. Find both the numbers.
16. If 2 is subtracted from a number, then tripled, the result is 4 more than the given number. Find the number.
17. The age of father is 30 years more than that of his son. 5 years hence father's age will be thrice of his son's age, find their present ages.
18. After 12 years. Manoj will be 3 times as old as he was 4 yrs. ago. What is his present age?
19. The age of Nishant and Sanjay are in the ratio 4 : 5. Ten years hence the ratio of their ages will be 6 : 7. Find their present ages
20. A bag contains 25-p coins and 50-p coins of Rs.30. If number of 25-p coins is four times 50-p coins find the number of each type of coins.

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