

Linear Equation in One Variable (Set1)

1. *Four Fifth of a number exceeds two-thirds of the number by 10. Find the number.*
2. *Two numbers are in the ratio of 3:4, and their sum is 84. Find the number.*
3. *Three numbers are in the ratio of 4:5:6 and their sum is 135. Find the number.*
4. *Two numbers are in the ratio of 3:5. If each is increased by 10, the ratio become 5:7. Find the original number.*
5. *The sum of the three consecutive odd numbers is 75. Find the number.*
6. *Divide 25 into two parts such that 7 times the first part added to 5 times the second part makes into 139.*
7. *Divide 180 into two parts such that the first part is 12 less than twice the second one.*
8. *The denominator of a fraction is 4 more than its numerator. On subtracting 1 from each numerator and subtracting 3 from the denominator, we obtain 1. Find the original fraction.*
9. *The Denominator of a fraction is one more than the double the numerator. On adding 2 to the numerator and subtracting 3 from the denominator we obtain 1. Find the original fraction.*
10. *The sum of the digits of a two-digit number is 5. On adding 27 to the number, its digits are reversed. Find the original number.*
11. *What same number should be added to each one of the numbers 15,23,29,44 to obtain numbers which are in proportion?*
12. *The sum of two numbers is 110, one fifth of the larger number is 8 more than one-ninth of the smallest number. Find the number.*
13. *The number is subtracting from the numerator of the fraction $\frac{12}{13}$ and six times that number is added to the denominator, if the new fraction is $\frac{1}{11}$. Find the number.*
14. *A right-angled triangle having perimeter 120cm has its two perpendicular sides in the ratio 5:12. Find the lengths of its sides.*
15. *The sum of the digits of a two-digit number is 9. If 9 is added to the number formed by reversing the digits, then the result is thrice the original number. Find the original Number.*

Answer

- 1) 75
- 2) 36,48
- 3) 36,45,54
- 4) 15,25
- 5) 23,25,27
- 6) 7,18
- 7) 116,64
- 8) $\frac{5}{9}$
- 9) $\frac{4}{9}$
- 10) 14
- 11) 1
- 12) 65,45
- 13) 7
- 14) 20 cm, 48cm, 52 cm
- 15) 27