

Board – ICSE

Class – 8th

Topic – LINEAR EQUATION IN ONE VARIABLE

1. Solve each of the following equations and also verify your solution:

$$9\frac{1}{4} = y - 11/3$$

$$5x/3 + 2/5 = 1$$

$$x/2 + x/3 + x/4 = 13$$

$$x/2 + x/8 = 1/8$$

$$2x/3 - 3x/8 = 7/12$$

$$x/2 - 4/5 + x/5 + 3x/10 = 1/5$$

$$7/x + 35 = 1/10$$

$$(2x-1)/3 - (6x-2)/5 = 1/3$$

2. Solve each of the following equations and also check your results in each case:

$$(2x+5)/3 = 3x - 10$$

$$(a-8)/3 = (a-3)/2$$

$$3/4x + 4x = 7/8 + 6x - 6$$

$$7x/2 - 5x/2 = 20x/3 + 10$$

3. Solve the following equations and verify your answer:

$$(2x-3) / (3x+2) = -2/3$$

$$(2-y) / (y+7) = 3/5$$

4. Divide 184 into two parts such that one-third of one part may exceed one-seventh of another part by 8
5. A sum of Rs 800 is in the form of denominations of Rs 10 and Rs 20. If the total number of notes be 50. Find the number of notes of each type.
6. Seeta Devi has Rs 9 in fifty-paise and twenty five-paise coins. She has twice as many twenty- five paise coins as she has fifty- paise coins. How many coins of each kind does she have?
7. The ages of Sonu and Monu are in the ratio 7:5 Ten years hence, the ratio of their ages will be 9:7 find their present ages.
8. I am currently 5 times as old as my son. In 6 years time I will be three times as old as he will be then. What are our ages now?

**Exclusively for
Class 11th & 12th**

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