

NCERT Solution For Class 8 Maths Chapter 2- Linear Equations in One Variable

Exercise 2.1

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Solve the following equations.

1.
$$x-2=7$$

Solution:

$$x - 2 = 7$$

$$x = 7 + 2$$

$$x=9$$

2.
$$y + 3 = 10$$

Solution:

$$y + 3 = 10$$

$$y = 10 - 3$$

$$y = 7$$

3.
$$6 = z + 2$$

Solution:

$$6 = z + 2$$

$$z + 2 = 6$$

$$z = 6-2$$

$$z=4$$

4.
$$\frac{3}{7} + x = \frac{17}{7}$$

4.
$$\frac{3}{7} + x = \frac{17}{7}$$

Solution: $\frac{3}{7} + x = \frac{17}{7}$
 $= \frac{17}{7} - \frac{3}{7}$
 $= \frac{14}{7}$
 $= \frac{14}{7}$
 $= \frac{14}{7}$

$$x = 2'$$

5. 6x = 12Solution:

$$6x = 12$$

$$x - \frac{12}{}$$

$$x = 2$$

6.
$$\frac{t}{5} = 10$$
 Solution:

$$\frac{t}{5} = 10$$



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$$t = 10 \times 5$$
$$t = 50$$

7.
$$\frac{2x}{3} = 18$$

Solution: $\frac{2x}{3} = 18$

$$\frac{2x}{3} = 18$$

$$2x = 18 \times 3$$

$$2x = 54$$

$$x = \frac{54}{2}$$

$$x = 27$$

8.
$$1.6 = \frac{y}{1.5}$$

Solution:

1.6 =
$$\frac{y}{1.5}$$

 $\frac{y}{1.5}$ = 1.6
 y = 1.6 × 1.5
 y = 2.4

9.
$$7x - 9 = 16$$

Solution:

$$7x - 9 = 16$$

$$7x = 16+9$$

$$7x = 25$$

$$x = \frac{25}{7}$$

10.
$$14y - 8 = 13$$

Solution:

$$14y - 8 = 13$$

$$14y = 13 + 8$$

$$14y = 21$$

$$y = \frac{21}{14}$$

$$y = \frac{3}{2}$$

11.
$$17 + 6p = 9$$

Solution:

$$17 + 6p = 9$$

 $6p = 9 - 17$
 $6p = -8$



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$$p = \frac{-8}{\frac{6}{6}}$$
$$p = \frac{-4}{3}$$

12.
$$\frac{x}{3} + 1 = \frac{7}{15}$$

Solution: $\frac{x}{3} + 1 = \frac{7}{15}$

$$\frac{x}{3} + 1 = \frac{7}{15}$$

$$\frac{x}{3} = \frac{7}{15} - 1$$

$$\frac{x}{3} = \frac{7-15}{15}$$

$$\frac{x}{3} = \frac{-8}{15}$$

$$\frac{x}{3} = \frac{7 - 15}{15}$$

$$\frac{x}{3} = \frac{-8}{15}$$

$$x = \frac{-8}{15} \times 3$$

$$x = \frac{-8}{5}$$

$$x = \frac{-8}{5}$$