

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

Solution:

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

$$x = \frac{17}{7} - \frac{3}{7}$$

$$x = \frac{14}{7}$$

$$x = 2$$

5. $6x = 12$

Solution:

$$6x = 12$$

$$x = 12/6$$

$$x = 2$$

6. $t/5 = 10$

Solution:

$$t/5 = 10$$

$$t = 10 \times 5$$

$$t = 50$$

7. $2x/3 = 18$

Solution:

$$2x/3 = 18$$

$$2x = 18 \times 3$$

$$2x = 54$$

$$x = 54/2$$

$$x = 27$$

8. $1.6 = y/15$

Solution:

$$1.6 = y/1.5$$

$$y/1.5 = 1.6$$

$$y = 1.6 \times 1.5$$

$$y = 2.4$$

9. $7x - 9 = 16$

Solution:

$$7x - 9 = 16$$

$$7x = 16 + 9$$

$$7x = 25$$

$$x = 25/7$$

10. $14y - 8 = 13$

Solution:

$$14y - 8 = 13$$

$$14y = 13 + 8$$

$$14y = 21$$

$$y = 21/14$$

$$y = 3/2$$

11. $17 + 6p = 9$

Solution:

$$17 + 6p = 9$$

$$6p = 9 - 17$$

$$6p = -8$$

$$p = -8/6$$

$$p = -4/3$$

12. $x/3 + 1 = 7/15$

Solution:

$$x/3 + 1 = 7/15$$

$$x/3 = 7/15 - 1$$

$$x/3 = (7 - 15)/15$$

$$x/3 = -8/15$$

$$x = -8/15 \times 3$$

$$x = -8/5$$