Think Academy

Solving One-Step Linear Equations

1 Find the solution to the equation.

$$3m = 36$$

$$m = \_\_\_\_\_$$

2 Find the solution to the equation.

$$7 - x = 3$$

$$x = \_\_\_\_\_$$

3 Find the solution to the equation.

$$\frac{y}{4} = 10.5$$

$y =$ _____

4 Find the solution to the equation.

$$\frac{x}{5} = 2\frac{1}{2}$$

$x =$ _____

5 Find the solution to the equation.

$$x + \frac{1}{5} = \frac{7}{15}$$

$x =$ _____

6 Find the solution to the equation.

$$x + 9 = 8$$

$x =$ _____

7 Find the solution to the equation.

$$x - 0.25 = -\frac{15}{16}$$

$$x = \_\_\_\_\_$$

8 Find the solution to the equation.

$$5x = 15.6$$

$$x = \_\_\_\_\_$$

9 Find the solution to the equation.

$$x \div 1.8 = 45$$

$x =$ _____

10 Find the solution to the equation.

$$\frac{7}{8} - x = \frac{3}{8}$$

$x =$ _____

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Solving One-Step Linear Equations

1 Find the solution to the equation.

$$3m = 36$$

$$m = \_\_\_\_\_$$

Answer 12

Solution $3m = 36$

$3m \div 3 = 36 \div 3$

$m = 12$

2 Find the solution to the equation.

$$7 - x = 3$$

$$x = \_\_\_\_\_$$

Answer 4

Solution $7 - x = 3$

$7 - x - 7 = 3 - 7$

$-x = -4$

$x = 4$

3 Find the solution to the equation.

$$\frac{y}{4} = 10.5$$

$$y = \_\_\_\_\_$$

Answer 42

Solution $\frac{y}{4}=10.5$

$\frac{y}{4}\times 4=10.5\times 4$

$y=42$

4 Find the solution to the equation.

$$\frac{x}{5}=2\frac{1}{2}$$

$x=$ _____

Answer 12.5

Alternative1: $\frac{25}{2}$

Alternative2: $12\frac{1}{2}$

Solution $\frac{x}{5}=2\frac{1}{2}$

$\frac{x}{5}\times 5=2\frac{1}{2}\times 5$

$x=\frac{25}{2}$

5 Find the solution to the equation.

$$x+\frac{1}{5}=\frac{7}{15}$$

$x=$ _____

Answer $\frac{4}{15}$

Solution $x+\frac{1}{5}=\frac{7}{15}$

$x+\frac{1}{5}-\frac{1}{5}=\frac{7}{15}-\frac{1}{5}$

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

$x=\frac{4}{15}$

6 Find the solution to the equation.

$$x+9=8$$

$$x=\_\_\_\_$$

Answer -1

Solution $x+9-9=8-9$

$x=-1$

7 Find the solution to the equation.

$$x-0.25=-\frac{15}{16}$$

$$x=\_\_\_\_$$

Answer $-\frac{11}{16}$$$

Solution $x-0.25=-\frac{15}{16}$

$x-\frac{1}{4}=-\frac{15}{16}$

$x-\frac{1}{4}+\frac{1}{4}=-\frac{15}{16}+\frac{1}{4}$

$x-\frac{1}{4}+\frac{1}{4}=-\frac{15}{16}+\frac{4}{16}$

$x=-\frac{11}{16}$

8 Find the solution to the equation.

$$5x=15.6$$

$$x=\_\_\_\_$$

Answer 3.12

Alternative1: $\frac{78}{25}$

Alternative2: $3\frac{3}{25}$

Solution

$$5x = 15.6$$
$$x = 15.6 \div 5$$
$$x = 3.12$$

9 Find the solution to the equation.

$$x \div 1.8 = 45$$

$x =$ _____

Answer 81

Solution
$$x \div 1.8 = 45$$
$$x = 45 \times 1.8$$
$$x = 81$$

10 Find the solution to the equation.

$$\frac{7}{8} - x = \frac{3}{8}$$

$x =$ _____

Answer $\frac{1}{2}$

Alternative: 0.5

Solution
$$\frac{7}{8} - x = \frac{3}{8}$$
$$\frac{7}{8} - x - \frac{3}{8} = \frac{3}{8} - \frac{3}{8}$$
$$\frac{4}{8} - x = 0$$
$$x = \frac{4}{8}$$
$$x = \frac{1}{2}$$