

Solve for X.

1) $\frac{-x}{10} - 7 = -2$

2) $\frac{x}{3} + 8 = 14$

3) $3x + 8 = 14$

4) $-10x - 4 = -24$

5) $-10x + 2 = -28$

6) $-2x + 6 = 22$

7) $-2x - 3 = -1$

8) $\frac{x}{9} - 2 = 8$

9) $\frac{x}{6} - 4 = -6$

10) $\frac{x}{5} + 1 = 3$

11) $\frac{x}{10} + 1 = 9$

12) $-6x - 7 = 53$

Solve for X.

1) $\frac{-x}{10} - 7 = -2$

Answer: -50

2) $\frac{x}{3} + 8 = 14$

Answer: 18

3) $3x + 8 = 14$

Answer: 2

4) $-10x - 4 = -24$

Answer: 2

5) $-10x + 2 = -28$

Answer: 3

6) $-2x + 6 = 22$

Answer: -8

7) $-2x - 3 = -1$

Answer: -1

8) $\frac{x}{9} - 2 = 8$

Answer: 90

9) $\frac{x}{6} - 4 = -6$

Answer: -12

$$10) \frac{x}{5} + 1 = 3$$

Answer: 10

$$11) \frac{x}{10} + 1 = 9$$

Answer: 80

$$12) -6x - 7 = 53$$

Answer: -10

MathVine - Pre-Algebra

Name _____

Two Step Linear Equations

Date _____ Period _____

Solution Steps

$$1) \frac{-x}{10} - 7 = -2$$

$$\frac{-x}{10} - 7 = -2$$

$$+7 = +7$$

$$\frac{-x}{10} = 5$$

$$* -10 = * -10$$

$$x = -50$$

$$2) \frac{x}{3} + 8 = 14$$

$$\frac{x}{3} + 8 = 14$$

$$-8 = -8$$

$$\frac{x}{3} = 6$$

$$*3 = *3$$

$$x = 18$$

$$3) 3x + 8 = 14$$

$$3x + 8 = 14$$

$$-8 = -8$$

$$3x = 6$$

$$/3 = /3$$

$$x = 2$$

$$4) -10x - 4 = -24$$

$$-10x - 4 = -24$$

$$+4 = +4$$

$$-10x = -20$$

$$/ -10 = / -10$$

$$x = 2$$

$$5) -10x + 2 = -28$$

$$-10x + 2 = -28$$

$$-2 = -2$$

$$-10x = -30$$

$$/ -10 = / -10$$

$$x = 3$$

$$6) -2x + 6 = 22$$

$$-2x + 6 = 22$$

$$-6 = -6$$

$$-2x = 16$$

$$/ -2 = / -2$$

$$x = -8$$

$$\begin{aligned}
7) \quad & -2x - 3 = -1 \\
& -2x - 3 = -1 \\
& +3 \quad = +3 \\
& -2x \quad = 2 \\
& / -2 \quad = / -2 \\
& x \quad = -1
\end{aligned}$$

$$\begin{aligned}
8) \quad & \frac{x}{9} - 2 = 8 \\
& \frac{x}{9} - 2 = 8 \\
& +2 \quad = +2 \\
& \frac{x}{9} \quad = 10 \\
& *9 \quad = *9 \\
& x \quad = 90
\end{aligned}$$

$$\begin{aligned}
9) \quad & \frac{x}{6} - 4 = -6 \\
& \frac{x}{6} - 4 = -6 \\
& +4 \quad = +4 \\
& \frac{x}{6} \quad = -2 \\
& *6 \quad = *6 \\
& x \quad = -12
\end{aligned}$$

$$\begin{aligned}
10) \quad & \frac{x}{5} + 1 = 3 \\
& \frac{x}{5} + 1 = 3 \\
& -1 \quad = -1 \\
& \frac{x}{5} \quad = 2 \\
& *5 \quad = *5 \\
& x \quad = 10
\end{aligned}$$

$$\begin{aligned}
11) \quad & \frac{x}{10} + 1 = 9 \\
& \frac{x}{10} + 1 = 9 \\
& -1 \quad = -1 \\
& \frac{x}{10} \quad = 8 \\
& *10 \quad = *10 \\
& x \quad = 80
\end{aligned}$$

$$\begin{aligned}
12) \quad & -6x - 7 = 53 \\
& -6x - 7 = 53 \\
& +7 \quad = +7 \\
& -6x \quad = 60 \\
& / -6 \quad = / -6 \\
& x \quad = -10
\end{aligned}$$