

**Solve for X.**

1)  $\frac{-x}{2} + 3 = 9$

2)  $-7x - 5 = -47$

3)  $\frac{-x}{5} + 4 = 12$

4)  $4x + 2 = 42$

5)  $\frac{x}{10} - 4 = 1$

6)  $7x + 1 = -55$

7)  $10x + 5 = 75$

8)  $-8x - 3 = -67$

9)  $\frac{-x}{9} - 6 = -5$

10)  $\frac{-x}{3} - 9 = -12$

11)  $-6x - 2 = 34$

12)  $-x + 10 = 20$

**Solve for X.**

1)  $\frac{-x}{2} + 3 = 9$

**Answer: -12**

2)  $-7x - 5 = -47$

**Answer: 6**

3)  $\frac{-x}{5} + 4 = 12$

**Answer: -40**

4)  $4x + 2 = 42$

**Answer: 10**

5)  $\frac{x}{10} - 4 = 1$

**Answer: 50**

6)  $7x + 1 = -55$

**Answer: -8**

7)  $10x + 5 = 75$

**Answer: 7**

8)  $-8x - 3 = -67$

**Answer: 8**

9)  $\frac{-x}{9} - 6 = -5$

**Answer: -9**

$$10) \frac{-x}{3} - 9 = -12$$

Answer: 9

$$11) -6x - 2 = 34$$

Answer: -6

$$12) -x + 10 = 20$$

Answer: -10

MathVine - Pre-Algebra

Name \_\_\_\_\_

Two Step Linear Equations

Date \_\_\_\_\_ Period \_\_\_\_\_

### Solution Steps

$$1) \frac{-x}{2} + 3 = 9$$

$$\frac{-x}{2} + 3 = 9$$

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

$$\frac{-x}{2} = 6$$

$$* -2 = * -2$$

$$x = -12$$

$$2) -7x - 5 = -47$$

$$-7x - 5 = -47$$

$$+5 = +5$$

$$-7x = -42$$

$$/ -7 = / -7$$

$$x = 6$$

$$3) \frac{-x}{5} + 4 = 12$$

$$\frac{-x}{5} + 4 = 12$$

$$\frac{-4}{5} = -4$$

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

$$* -5 = * -5$$

$$x = -40$$

$$4) 4x + 2 = 42$$

$$4x + 2 = 42$$

$$-2 = -2$$

$$4x = 40$$

$$/4 = /4$$

$$x = 10$$

$$5) \frac{x}{10} - 4 = 1$$

$$\frac{x}{10} - 4 = 1$$

$$+4 = +4$$

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

$$*10 = *10$$

$$x = 50$$

$$6) 7x + 1 = -55$$

$$7x + 1 = -55$$

$$-1 = -1$$

$$7x = -56$$

$$/7 = /7$$

$$x = -8$$

$$7) 10x + 5 = 75$$

$$10x + 5 = 75$$

$$-5 = -5$$

$$10x = 70$$

$$/10 = /10$$

$$x = 7$$

$$8) -8x - 3 = -67$$

$$-8x - 3 = -67$$

$$+3 = +3$$

$$-8x = -64$$

$$/ - 8 = / - 8$$

$$x = 8$$

$$9) \frac{-x}{9} - 6 = -5$$

$$\frac{-x}{9} - 6 = -5$$

$$+6 = +6$$

$$\frac{-x}{9} = 1$$

$$* - 9 = * - 9$$

$$x = -9$$

$$10) \frac{-x}{3} - 9 = -12$$

$$\frac{-x}{3} - 9 = -12$$

$$+9 = +9$$

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

$$* - 3 = * - 3$$

$$x = 9$$

$$11) -6x - 2 = 34$$

$$-6x - 2 = 34$$

$$+2 = +2$$

$$-6x = 36$$

$$/ - 6 = / - 6$$

$$x = -6$$

$$12) -x + 10 = 20$$

$$-x + 10 = 20$$

$$-10 = -10$$

$$-x = 10$$

$$/ - 1 = / - 1$$

$$x = -10$$