

$$\frac{x}{a} + b = c$$

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Learning Goal 6.1**

I can solve linear equations.

**Recall** Solve using the inverse operations. Show all work for full credit.

a.  $\frac{x}{2} = -3$

b.  $1 = \frac{-c}{3}$

To solve a **two – step equation**

1.

2.

**Example** Model each of the following equations, then solve.

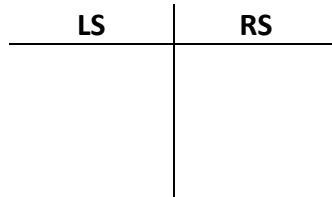
a.  $\frac{x}{2} + 3 = 5$

b.  $1 = \frac{-c}{3} - 2$

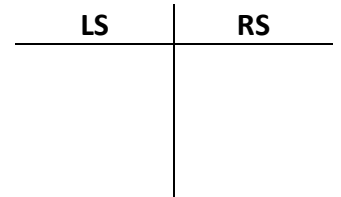
$$\frac{x}{a} + b = c$$

**Example** Solve the following by applying the opposite operation. Check your answer.

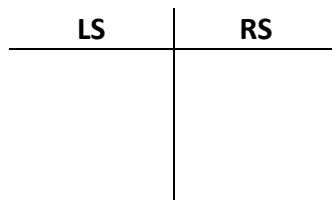
a.  $\frac{x}{4} + 12 = -8$



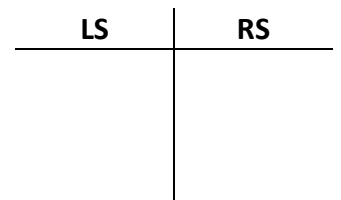
b.  $\frac{y}{-3} + 4 = 10$



c.  $2 = \frac{-p}{4} - 3$



d.  $-3 = 4 - \frac{k}{6}$



**Example** Ellie is 30 years old. She is six years older than half of Dwight's age. How old is Dwight? Define your variable, set up an algebraic equation and solve.