

Name: _____

Date: _____

Learning Goal 6.1

I can solve linear equations.

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

a. $x + 2 = -13$

b. $x - 7 = -3$

c. $-5x = 25$

d. $\frac{x}{8} = -3$

To solve a **two – step equation**

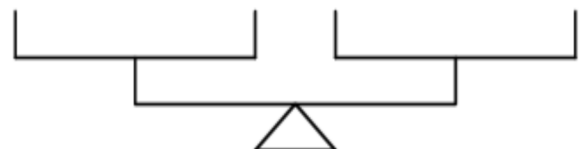
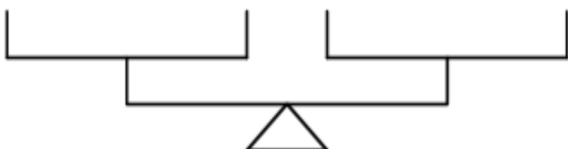
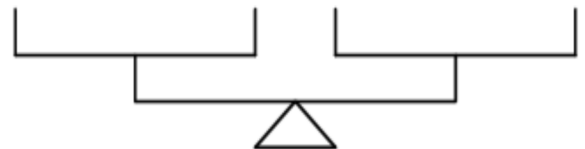
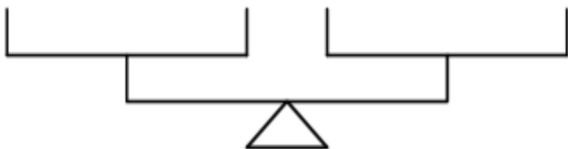
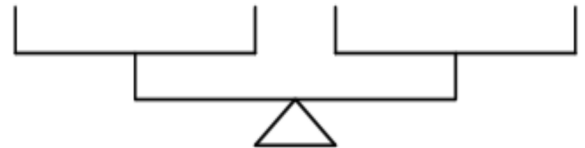
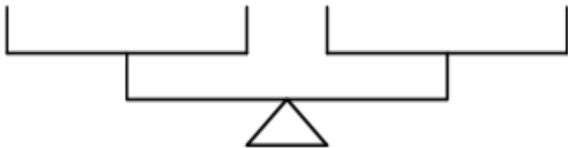
1.

2.

Example Solve the following equations using a balance scale to model it.

a. $6n + 6 = 12$

b. $13 = 7 + 2p$



$$ax + b = c$$

Example Solve the following equations using algebra tiles to model it.

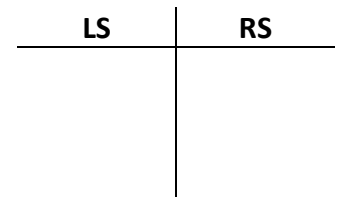
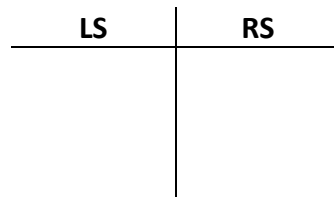
a. $2x - 2 = 4$

b. $2 = 3x - 1$

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

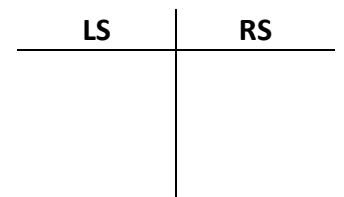
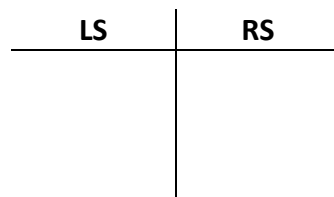
a. $-3x + 7 = 19$

b. $4 + 26g = -48$



c. $24 = 14 - 5x$

d. $40 = 5x - 10$



Example A cow sleeps 7 hours a day. This amount of sleep is 1 hour less than twice the amount an elephant sleeps a day. How long does an elephant sleep? Define the variable, set up the equation and solve.