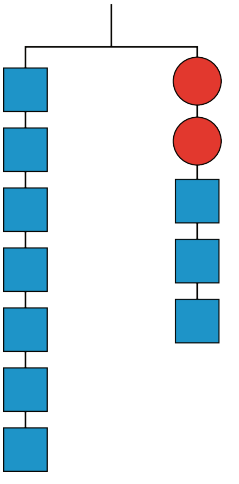
Lesson 7 Practice Problems

1. Explain how the parts of the balanced hanger compare to the parts of the equation.

$7 = 2x + 3$

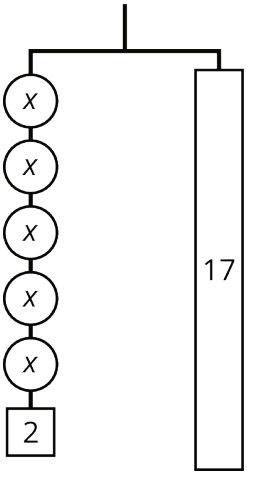


2. For the hanger below:

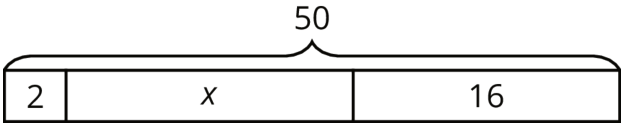
   a. Write an equation to represent the hanger.

   b. Draw more hangers to show each step you would take to find x. Explain your reasoning.

   c. Write an equation to describe each hanger you drew. Describe how each equation matches its hanger.



3. Clare drew this diagram to match the equation $2x + 16 = 50$, but she got the wrong solution as a result of using this diagram.



a. What value for x can be found using the diagram?

b. Show how to fix Clare's diagram to correctly match the equation.

c. Use the new diagram to find a correct value for x.

d. Explain the mistake Clare made when she drew her diagram.

(From Unit 3, Lesson 3.)