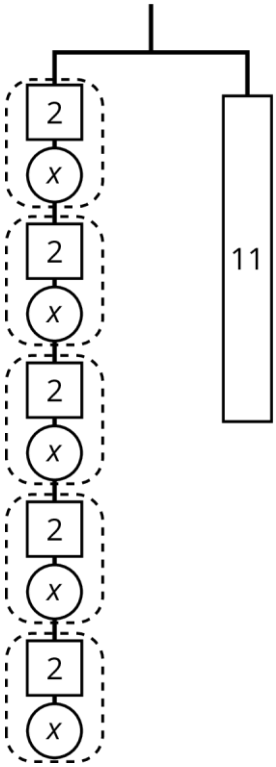
Math 7 Period _____ Name_____

7.6.8 Homework Set Date_____

1. Here is a hanger:

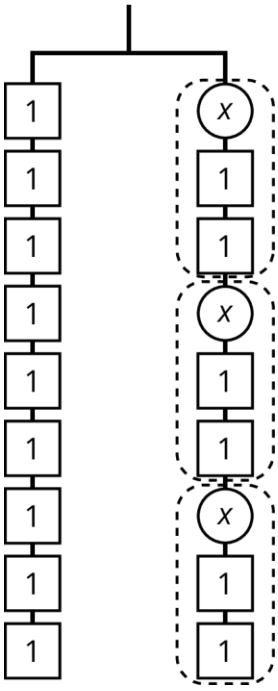


   A. Write an equation to represent the hanger.

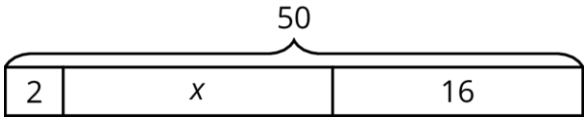
   B. Solve the equation using properties of equality and operations.

2. Explain how each part of the equation $9 = 3(x + 2)$ is represented in the hanger.

   - x
   - 9
   - 3
   - $x + 2$
   - $3(x + 2)$
   - the equal sign



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. (from Unit 6, Lesson 3)



   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. Solve the equation using properties of equality and operations. Verify your solution.