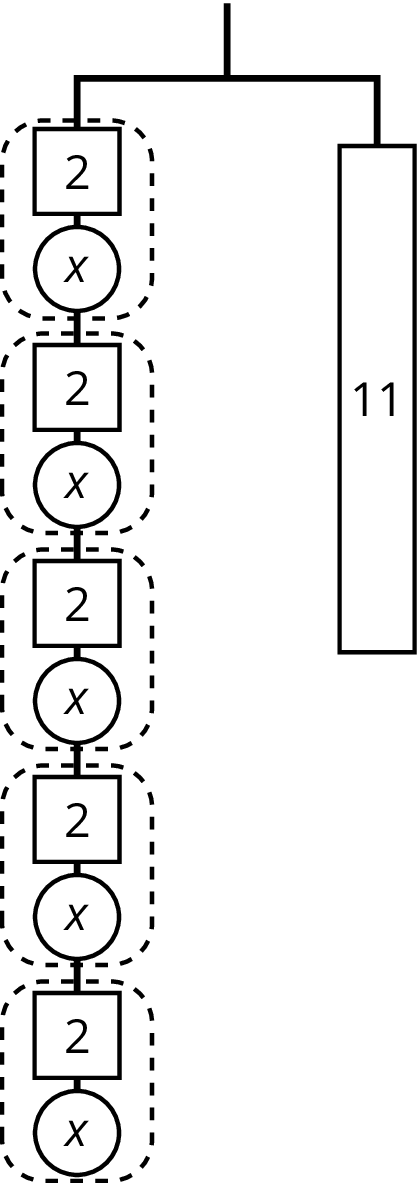
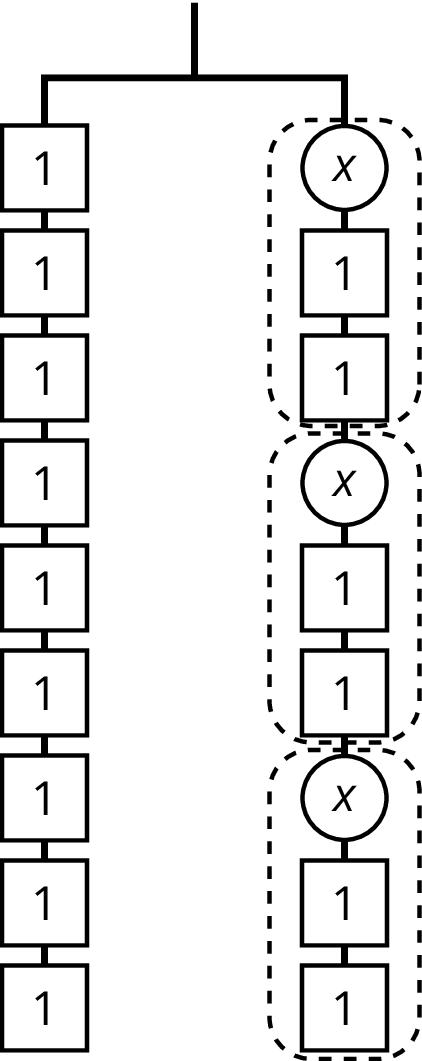
## Unit 6 Lesson 8 Cumulative Practice Problems

1. Here is a hanger:
   1. Write an equation to represent the hanger.
   2. Solve the equation by reasoning about the equation or the hanger. Explain your reasoning.

* 

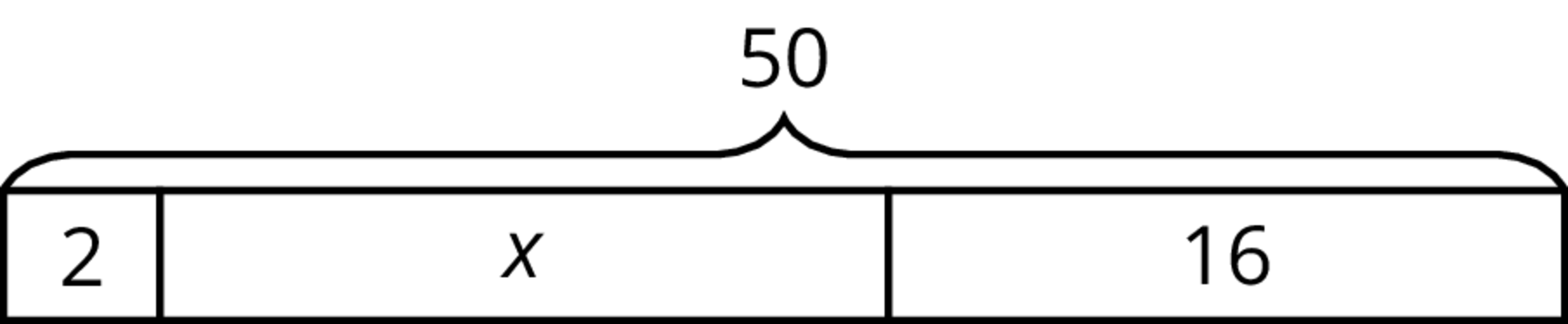
1. Explain how each part of the equation is represented in the hanger.
   * 9
   * 3
   * the equal sign

* 

1. Select the word from the following list that best describes each situation.
   1. You deposit money in a savings account, and every year the amount of money in the account increases by 2.5%.
   2. For every car sold, a car salesman is paid 6% of the car’s price.
   3. Someone who eats at a restaurant pays an extra 20% of the food price. This extra money is kept by the person who served the food.
   4. An antique furniture store pays $200 for a chair, adds 50% of that amount, and sells the chair for $300.
   5. The normal price of a mattress is $600, but it is on sale for 10% off.
   6. For any item you purchase in Texas, you pay an additional 6.25% of the item's price to the state government.
   7. Tax
   8. Commission
   9. Discount
   10. Markup
   11. Tip or gratuity
   12. Interest

* (From Unit 4, Lesson 11.)

1. Clare drew this diagram to match the equation , but she got the wrong solution as a result of using this diagram.

* 
* 1. What value for can be found using the diagram?
  2. Show how to fix Clare’s diagram to correctly match the equation.
  3. Use the new diagram to find a correct value for .
  4. Explain the mistake Clare made when she drew her diagram.
* (From Unit 6, Lesson 3.)



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