## Unit 3 Lesson 7 Cumulative Practice Problems

1. Explain how the parts of the balanced hanger compare to the parts of the equation.
* $7=2x+3$
* 
1. For the hanger below:
	1. Write an equation to represent the hanger.
	2. Draw more hangers to show each step you would take to find $x$. Explain your reasoning.
	3. Write an equation to describe each hanger you drew. Describe how each equation matches its hanger.
* 
1. Clare drew this diagram to match the equation $2x+16=50$, but she got the wrong solution as a result of using this diagram.
* 
* 1. What value for $x$ 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 $x$.
	4. Explain the mistake Clare made when she drew her diagram.
* (From Unit 3, Lesson 3.)



© CC BY Open Up Resources. Adaptations CC BY IM.