## Unit 3 Lesson 4 Cumulative Practice Problems

1. Here are three stories:
	* A family buys 6 tickets to a show. They also pay a $3 parking fee. They spend $27 to see the show.
	* Diego has 27 ounces of juice. He pours equal amounts for each of his 3 friends and has 6 ounces left for himself.
	* Jada works for 6 hours preparing for the art fair. She spends 3 hours on a sculpture and then paints 27 picture frames.
* Here are three equations:
	+ $3x+6=27$
	+ $6x+3=27$
	+ $27x+3=6$
	1. Decide which equation represents each story. What does $x$ represent in each equation?
	2. Find the solution to each equation. Explain or show your reasoning.
	3. What does each solution tell you about its situation?
1. Here is a diagram and its corresponding equation. Find the solution to the equation and explain your reasoning.
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* $6x+11=21$
1. For each object, choose an appropriate scale for a drawing that fits on a regular sheet of paper. Not all of the scales on the list will be used.
* Objects
	1. A person
	2. A football field (120 yards by 53$\frac{1}{3}$ yards)
	3. The state of Washington (about 240 miles by 360 miles)
	4. The floor plan of a house
	5. A rectangular farm (6 miles by 2 mile)
* Scales
	+ 1 in : 1 ft
	+ 1 cm : 1 m
	+ 1: 1000
	+ 1 ft: 1 mile
	+ 1: 100,000
	+ 1 mm: 1 km
	+ 1: 10,000,000
* (From Unit 2, Lesson 7.)
1. The diagram shows two intersecting lines.
* Find the missing angle measures.
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* (From Unit 1, Lesson 12.)



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