## Unit 2 Lesson 14 Cumulative Practice Problems

1. The equation $c=2.95g$ shows how much it costs to buy gas at a gas station on a certain day. In the equation, $c$ represents the cost in dollars, and $g$ represents how many gallons of gas were purchased.
	1. Write down at least four (gallons of gas, cost) pairs that fit this relationship.
	2. Create a graph of the relationship.
	3. What does 2.95 represent in this situation?
	4. Jada’s mom remarks, “You can get about a third of a gallon of gas for a dollar.” Is she correct? How did she come up with that?
2. There is a proportional relationship between a volume measured in cups and the same volume measured in tablespoons. 3 cups is equivalent to 48 tablespoons, as shown in the graph.
	1. Plot and label at least two more points that represent the relationship.
	2. Use a straightedge to draw a line that represents this proportional relationship.
	3. For which value y is ($1,y$) on the line you just drew?
	4. What is the constant of proportionality for this relationship?
	5. Write an equation representing this relationship. Use $c$ for cups and $t$ for tablespoons.
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