

Lesson 17 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.
 - a. Write down at least four (gallons of gas, cost) pairs that fit this relationship.
 - b. Create a graph of the relationship.

- c. What does 2.95 represent in this situation?
- d. 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.
 - a. Plot and label at least two more points that represent the relationship.
 - b. Use a straightedge to draw a line that represents this proportional relationship.
 - c. For which value y is (1, y) on the line you just drew?
 - d. What is the constant of proportionality for this relationship?
 - e. Write an equation representing this relationship. Use \emph{c} for cups and \emph{t} for tablespoons.

