# Lesson 14 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?

**Grade 7 Unit 2**
Lesson 14

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1

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 $c$ for cups and $t$ for tablespoons.