

Name \_\_\_\_\_ Date \_\_\_\_\_

Lesson 5: Apply

**A Cup of Coffee**



Marisol made observations about selling price of a new coffee sold at Starbucks that sold in three different sized bags. She recorded those observations in the following table.

Ounces of Coffee	6	8	16
Price in Dollars	\$2.40	\$3.20	\$6.40

- 1.) Is there a proportional relationship between the amount of coffee and the price? Why or why not?
- 2.) Find the unit rates associated with this problem.
- 3.) Explain what the unit rates mean in the context of this problem.
- 4.) Explain in writing why it is helpful for Julia to determine if the relationship between the amount of coffee and the price is proportional before she buys a new bag of coffee.

Name \_\_\_\_\_

Date \_\_\_\_\_

Lesson 5: Homework

1. Mrs. Shirk made the following rate table to solve the problem.

Number of Brushes	4	1	10	30	32
Price (dollars)	17	4.25	42.50	127.50	136

- a. Is this rate table proportional? Explain.  
b. How many number of paint brushes can Mrs. Shirk buy for \$238?

2. Joel's car be driven 450 miles with 15 gallons of gasoline.

- a. Make a rate table showing the number of miles his car can be driven with 1, 2, 3, ..., 10 gallons of gas.  
b. How many miles can you drive on 14 gallon tank?  
c. How many times do you need to fill your gas if you have 14 gallon tank and are driving 750 miles?

3. You can use the recipe shown to make a fruit punch. Is the amount of sugar used proportional to the amount of mix used?

Cups of Sugar	$\frac{1}{2}$	1	$1\frac{1}{2}$	2
Envelopes of Mix	1	2	3	4

Explain.

4. Which situation represents a proportional relationship between the number of laps run by each student and their time?

Maria's Time(s)	150	320	580
Laps	2	4	5

Desmond's Time(s)	146	292	584
Laps	2	4	8

Explain.