Unit: Proportional Relationships Student Handout 6

Name	
Date	Pd

FRACTIONAL UNIT RATES

At Sugar Shack, customers fill bags with assorted candy. The price of a bag of candy is determined by the number of pounds purchased. The price of Lillian's bag of candy is shown at the right. Describe a method to determine the price per pound of candy.

1 LBS FOR

1/4 LBS FOR \$2.10

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• The unit rate describes the _____, or the rate when the is one.

Ex: \$0.27 per ounce, 40 miles per gallon

For 1-2, choose a method described above to answer each question.

1. Marcus walks $\frac{1}{3}$ of a mile in $\frac{1}{6}$ of an hour. If Marcus walks at a constant speed, how long will it take him to walk 1 mile?

2. At the grocery store, $\frac{2}{5}$ of a pound of grapes cost \$2.00. What is the price per pound of grapes?

Use your understanding of unit rate answer the questions below.

- 3. Robert is going on a 2-day canoeing trip with his outdoor adventure group. Robert paddles at a constant speed and travels $\frac{3}{4}$ of a mile in 15 minutes.
- a. Create a table to determine how long it takes Robert to canoe 1 mile.
- b. On the first day of the trip, Robert canoes for 3 hours. How far did Robert travel?
- c. On the second day of the trip, Robert travels 6 miles down the river. How many hours did he spend paddling?
- d. Another member of the group, Matthew, can canoe $\frac{3}{2}$ miles in 45 minutes. Who is traveling at a faster rate, Robert or Matthew? Explain your reasoning.

4. Ignacia grows daisies and se grow at a constant rate as show	ells them to local f wn below. Use the	lorists. The dais	sies	
diswer d-c.	WEEKS	HEIGHT (IN)		
a. Determine how many inches	in one week.	2 <u>1</u>	4	
b. Ignacia sells the flowers onc Ignacia sell the flowers?	e they are 8 inche	es tall. After hov	w many weeks	can
c. How tall will the daises	be after 10 week	s?		
Crystal is making her family's famous homemade chocolate chip cookies. The list of the ingredients is shown in the table at the right. While she was cooking, part of the recipe got covered up and		de	FLOUR	$2\frac{1}{2} \text{ cups}$ $\frac{2}{3} \text{ cup}$ $\frac{1}{6} \text{ cup}$
		이 보다가 하다 그 내가 바다 가게 되는 것이다.	SUGAR	
instead of adding $\frac{1}{6}$ cup of butt	up	BUTTER		
of butter. Use the information	5-9. CHOC	OLATE CHIPS	1 <u>f</u> cups	
5. Write the ratio of butter to sugar in the original recipe.	6. How can you write an equivalent ratio of butter to sugar for 1 cup of butter?		7. How many cups of sugar should Crystal use now to keep the ratios of the recipe equivalent?	
8. List the amount of each ingredient for Crystal's new recipe with 1 cup of butter.		9. The next day, Crystal decides to make the recipe again, but this time uses 1 cup of sugar. Crystal thinks she can multiply the amount of each ingredient by 3 to determine the new recipe with equivalent ratios. Do you agree or disagree? Explain.		

Summarize today's lesson:

Flour: _

Chocolate chips: