Mr. Rogove

Date:_____

LEARNING OBJECTIVE: We will solve problems that require us to find unit rates involving fractions (G7M1L7)

CONCEPT DEVELOPMENT:

Time to Remodel: You have decided to remodel your bathroom and you're putting tile on the floor. Your bathroom is rectangular and the floor measures 14 feet 8 inches long and 5 feet 6 inches wide. The tile you want to use costs \$5 each, and each tile covers $4\frac{2}{3}$ square feet. If you have \$100 to spend, can you purchase enough tile?

What I Know	What I Want to Find	How to Find it		
Dimensions 14'8" × 5' 6" 14 = 3 × 5 = 2	Area	Mulhey LXW	803 Sq.ft.	
Area of 1 tile 43 sq.ft.	How many files would it take to cover Ploor.	Divide total area by grea of I tile	18 h les	
Cost of 1 tile \$5.00	Total cost of files	Multiply Sx #of files.	\$90	
Budget \$100.	Do I have Chargh &	100 = cost of files.	Yes! \$10 left	
143×52 +703 143×52 over for 1unch				
5 70 13	+	$\frac{4}{3} \times \frac{11}{2} = \frac{484}{6}$	-803	
$\frac{77 + \frac{13}{3} = 80^{\frac{2}{3}}}{6} + \frac{14}{3}$ $\frac{184}{6} + \frac{3}{4} = \frac{121}{7} = 17^{\frac{2}{7}} + \text{files}$				
	62, H7	7		

144

NORA

14 (44) 144

4985 4989 4886

2389 1997 4986

CHRISK 2989 1997

DIOGO 2000 900 80 9 1000 900 90 7 3000 + 170+16 4986 MALENA 1997 + 2989

2989 -3 = 2986 1997 +3 = 2000 4986 Mr. Rogove

Date:_____

PRACTICE:

Which car can travel further on 1 gallon of gas?

UNITRATE: MILES

Car A: Travels $18\frac{2}{5}$ miles using 0.8 gallons of gas

$$\frac{67}{5} \div \frac{3}{4} = \frac{87}{5} \cdot \frac{4}{3} = \frac{116}{5} = 23\frac{1}{5}$$

If $\frac{3}{4}$ lb. of candy cost \$20.50, how much would 1 lb. of candy cost?

$$\begin{array}{c} 20\frac{1}{2} \div \frac{3}{4} \\ \frac{41}{2} \div \frac{3}{4} = \frac{41}{2} \cdot \frac{4^{2}}{3} = \frac{82}{3} = 27\frac{1}{3} \quad \$27.33 \\ \frac{6.83}{5} \cdot 6.83 \quad 6.83 \quad 6.83 \quad 827.33 \\ \frac{1}{4} \quad 116. \end{array}$$

Molly watches $2\frac{1}{2}$ movies in the car during a 6 hour and 20 minute trip to Los Angeles. If the movies are all the same length, how long is each movie?

$$\frac{19}{3} + \frac{5}{2} = \frac{19}{3} \cdot \frac{2}{5} = \frac{38}{15}$$

NAME:	Math 7.1
Mr. Rogove	Date:

INDEPENDENT PRACTICE:

Cooking with the Whole cup

ACTIVATING PRIOR KNOWLEDGE:

We can calculate unit rates involving fractions:

One lap around a dirt track is 1/3 of a mile. It takes Bryce 1/9 of hour to ride a lap. How many miles can she ride in one hour?	A local bakery uses 1.75 cups of flour in each batch of cookies. If the bakery used 5.25 cups of flour, how many batches of cookies did they make?

CLOSURE:

Last exercise could be closure...

TEACHER NOTES:

This aligns with Lesson 12 from Module 1. Hand out IM-Cooking with the Whole Cup. This can be classwork. Hand out Problem set—this will be homework.