Name _____

Period _____

Unit 1: Ratio, Rate, Proportion Review

1. Currently there are 42 cats and 18 dogs at the Buddy Foundation animal shelter. Write a ratio of dogs to total.

2. In my candy jar are a number of candies left from Halloween. What combination of candy would represent the ratio 1:2?

Reese's Peanut Butter Cup	Butterfingers	Hershey's Chocolate	Snickers
9	3	6	18

3. Seven 2-liter bottles of soda cost \$9.80. If each 2-liter bottle cost the same, how much did <u>one</u> 2-liter bottle cost?

4. In his first 14 games, Kris Bryant had 42 hits. How many hits per game did Bryant make?

If he continued this hitting streak, at this rate, how many hits would he have after 161 games?

^{5.} A pre-paid phone card costs \$3 for $\frac{2}{3}$ hour. Another pre-paid card costs \$9 to talk for $2\frac{1}{4}$ hours. Which is a better buy?

6.	Which dishwashing soap is the best buy? Show proof .				
	\$6.71 for 9 ounces	\$5.60 for 7.25	ounces	\$7.44 for 10.5 ounces	
7.	Each store is selling delicious	Flintstone Vita	mins.		
	Walmart: 40 vitamins for \$1	4.56	Target:	75 vitamins for \$26.08	
a.	Which store has a better deal	?			
b.	Justify your answer				

In problems 7 and 8, determine whether or not each pair of ratios is proportional. Show evidence.

8.
$$\frac{28}{72} = \frac{15}{27}$$
 9. $\frac{16}{28} = \frac{20}{35}$

10. For the first 165 days of the year in San Diego, 120 of them had a temperature of 80° . At this rate, how many days will be 80° after 363 days?

11. The table below shows the number of rooms painted in 4, 6 and 10 hours. Does the table show a proportional relationship? Explain why or why not.

hours	6	9	15
rooms painted	4	6	10

12. Gia is a nail technician who paints finger and toe nails. Saturday, she worked on 15 customers in 6 hours. Make a table to show the proportional relationship of Gia working 8 and 2 hours.

Hours (x)				
Customers (y)				
k=	Unit Rate:		Equation:	
If Gia had 20 customers, how long did she work?				
If Gia worked 15 hours on the weekend, how many customers did she have?				
13. Gia worked on Saturday. She worked on 14 customers making \$301. Make a table to show the proportional relationship of Gia working on 8 and 2 customers.				
Customer (x)				

Customer (x)		
Cost (y)		

k=	Unit Rate:	Equation:
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If Gia had 18 customers, how much did she make? _____

If Gia made \$451.50 on the weekend, how many customers did she have?









