Name:_____ Group:_____ Date:_____

Test Review

1. Fill in the missing fraction, decimal or percent. Write the fraction in simplest form.

Fraction	Decimal	Percent
$\dfrac{17}{20}$		
	.24	
		8%
	.3	
$\dfrac{6}{8}$		

2. Solve for the variable.

$$\frac{6}{8} = \frac{x}{12} \qquad\qquad \frac{x}{90} = \frac{72}{135} \qquad\qquad \frac{35}{55} = \frac{7}{x} \qquad\qquad \frac{v}{15} = \frac{4}{6}$$

3. If Sarah walking 6 miles in 2 hours, how long with it take Sarah to walk 15 miles?

4. Greg can run 3 miles in 20 minutes. At this same rate, how far can he run in one hour?

5. Tom can type 75 words in 2.5 minutes. How many words can he type per minute?

6. Maria earned $124 after babysitting for 8 hours. How much money did she make each hour?

7. If 1 yard = 3 feet, them how many yards are 4 feet?

8. If 1 centimeter = 10 millimeters, then how many centimeters are in 90 millimeters?

9. A recipe requires 3 cups of flour to make 27 dinner rolls. Select all of the statements below that are true about the cups of flours needed for the dinner rolls.

1 cup of flour	9 rolls
4 cups of flour	40 rolls
5 cups of flour	45 rolls
7 cups of flour	56 rolls
10 cups of flour	90 rolls

10. Rob bought 4 donuts for $6.00.
   a. Fill in the rate table below to determine the cost of the different amount of donuts.

Donuts (d)	1	2	3	4	9	12
Cost (c)						

   b. Write an equation that expresses the relationship between the number of donuts, d, and the cost, c.

   c. Graph the table, up to 9 donuts.

   d. What is the constant of proportionality? Explain how you know.

11. During a swimming competition, Nelson swam 100 meters in 62 seconds and Mike swam 200 meters in 130 seconds. Who swam at a faster rate?

12. Find the unit rate for the items below. Then, determine which is the better buy. Explain how you know.

12 car washes for $100	**12 oz. bag of chips for $3.40**	**20 oz. bottle of soda for $1.80**
Or	**Or**	**Or**
5 car washes for $45	**A 3 oz. bag of chips for $0.75**	**12 oz. bottle of soda for $1.25**

13. What is 23% of 80?   14. 63 is 70% of what number?   15. 14 is what percent of 70?

16. Brianna bought a surf board that was originally $260.69. If she has a 35% off coupon, how much did she pay for the surf board?

17. Krystel bought basketball sneakers that cost $79.39. If she has a 20% off coupon, how much did she pay for the basketball sneakers?

18. Ed and Tyler go to dinner at Colony Pizza. They order two sodas that cost $1.25 each and one pizza that costs $9.50. They leave an 18% tip. What was the cost for dinner including the tip?

19. Sandy bought a new pair of shoes for $64. If tax is 6.5%, how much is she paying for the new pair of shoes, including tax?

20. The cost of a book, with tax is $30.24. If the tax was 8%, how much did the book cost before the tax was added?

21. Alison spent $27 on a backpack that was originally $36. What was the percent that Alison saved on her backpack?

22. The ratio of blue marbles to green marbles in a bag is $\frac{2}{3}$. If there are 12 blue marbles in the bag, how many are green?