Unit 2 PRACTICE test-- Ratios, Rates, and Proportional Reasoning

1. Jordan has 3 cats and 2 dogs. What is the ratio of cats to the total number of pets?

   A 2 to 5   C 3 to 5

   B 3 to 2   D 5 to 5

2. Which of the following is the best deal?

   F 6-oz box of crackers for $1.08

   G 7-oz box of crackers for $1.19

   H 8-oz box of crackers for $1.20

   J 9-oz box of crackers for $1.26

3. The table shows how much Barry earns at his part-time job. Predict Barry's earnings for 7 hours of work.

Hours	2	4	6	8
Pay	$14.50	$29.00	$43.50	$58.00

   _____

4. Evaluate the expression to find the missing values in the table.

7	14		
2		6	20

5. What is the missing value in the proportion $\frac{x}{12} = \frac{15}{18}$?

   A 6   C 14

   B 10   D 22

6. What is the missing value in the proportion? $\frac{21}{6} = \frac{7}{n}$ n = ____

7. Use the table to write the ratio of peppers to carrots. _____

Type of Vegetable	Number on Plate
Carrots	4
Peas	17
Peppers	23
Green beans	9

8. Larry drove 441 miles in 7 hours. If he drove at a constant speed, what is his rate? (How many miles does he drive in one hour?) _____

9. Grace read 3 pages of her book in 5 minutes. At that rate, how many pages will she read in 75 minutes? _____

10. What is 36 pints converted into quarts? (1 quart = 2 pints)

   A 72 qt   C 9 qt

   B 18 qt   D 12qt

11. Mya ran 6 miles. What is that in kilometers? (1 mile = 1.6 kilometers)

   _____

12. Alex is 2.7 m tall. Convert this measure to cm. (1m = 100cm)

   F 27,000 cm   H 27 cm

   G 2,700 cm   J 270 cm

13. What is 77% as a decimal? _____

14. Approximately 2% of children are home-schooled. What is 2% as a fraction in simplest form?

F $\dfrac{1}{50}$ H $\dfrac{1}{20}$

G $\dfrac{2}{100}$ J $\dfrac{1}{2}$

15. What is 0.38 as a percent?

A 0.38% C 3.8%

B 38% D 380%

16. What is $\dfrac{1}{10}$ as a percent? _____

17. What is 34% of 120?

A 4.08 C 86

B 40.8 D 408

18. What is 26% of 90? _____

19. Winn's Discount store has a 33% off sale on all of its merchandise. How much is the discount on a backpack originally costs $48.95?

F $15.95 H $32.80

G $16.15 J $65.10

20. Write 12 out of 40 as a percent.
_____

21. In a survey, 75 people, which was 30% of those surveyed, chose blue as their favorite color. How many people were surveyed?

A 100 people C 138 people

B 300 people D 250 people

22. 72 is 60% of what number?
_____

*There will also be 3 review questions from unit one on the test tomorrow!