

Math 6 - Unit 2: Rates, Ratios & Proportions

Name: _____

Mid-Unit Test – Study Guide

Class Period: 1 2 3 4 Date: _____

Vocabulary

For numbers 1-3, write the definition for each term.

1) Define rate: _____

2) Define unit rate: _____

3) Define ratio: _____

Use the picture to the right to answer questions 4-8

4) What is the ratio of footballs to ALL balls?

5) What is the ratio of basketballs to soccer balls and footballs?

6) Was the ratio in question #5 a part to part or part to whole ratio?

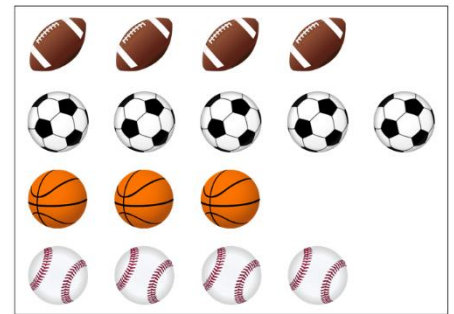
7) Write a ratio that show a part to part relationship.

8) Write a ratio that shows a part to whole relationship.

9) An animal shelter has 18 kittens and 9 puppies available for adoption. What is the ratio of puppies to kittens?

10) ECMS spent \$105 for 15 pizzas for the Homework Stars Party. What is the unit rate (price per pizza?)

11) Use ratio language to write the following: 4 bananas : 2 apples



Use the table to answer question 12-14

The table below shows the rates of 2 racecars in a race. Evaluate the unit rates to complete the chart.

Racecar	Rate	Unit Rate (miles per hour)
Red Car	360 miles/3 hours	12)
Yellow Car	750 miles/5 hours	13)

14) In the chart above, which car was the fastest?

15) Kayla bought 6 candies for \$3.60. Isaac bought 15 candies for \$11.25 How much did each student pay per candy?

16) Complete the ratio table.

13		39	52
1	2		

17) Complete the ratio table.

4		20	
7	21		56

18) Complete the ratio table.

2		18	
	9	27	90

19) Is the pair of ratios equivalent? $\frac{2}{3} = \frac{4}{6}$

20) Is the pair of ratios equivalent? $\frac{14}{20} = \frac{7}{10}$

21) Is the pair of ratios equivalent? $\frac{12}{40} = \frac{6}{10}$

22) Jayda sent 72 texts in 6 days. At this rate, how many texts will she send in 10 days?

23) Coke costs \$3.90 for 6 cans and Pepsi costs \$2.80 for 4 cans. Which one is the better deal?

24) Dunkin donuts sells a dozen donuts for \$13.44, Krispy Cream sells a half dozen for \$5.94. Which one is the better deal?

25) Explain how to simplify a ratio: _____

Simplify the following ratios:

26) 9 to 27

27) 4 : 26

28) $\frac{14}{56}$

229) 11 : 13