

Name _____

Date _____

Mr. Tallman

Math 7

Lesson #21 - Ratios, Rates and Unit Rate

Recall:

Reduce the following fractions.

A) $\frac{4}{18} =$

B) $\frac{3}{12} =$

C) $\frac{18}{27} =$

A **RATIO** is _____.

Examples:

A **ratio** can be written 3 ways. _____

Example 1) How many boys and girls are in the class? Boys: _____ Girls: _____

Write the ratio of boys to girls in three different ways.

Word Ratio

What is the ratio of **boys to total students**?

** _____ IS VERY IMPORTANT WHEN WRITING RATIOS**

- A **RATE** is a _____.
- A **UNIT RATE** is a _____.

How fast is our class?

Trial	# of Times Flipped	Time (in seconds)	Rate (flips per second)	Unit Rate
1				
2				
3				

**What do you notice about the denominator of a unit rate? _____

Try It!

1) The ratio of the number of bananas to the number of apples at a fruit stand is 3:5. Write three ratios that is equivalent to 3:5.

#2-3: A basket of fruit contains 6 apples, 4 bananas, and 3 oranges.

2) What is the ratio of bananas to apples? (in simplest form).

3) What is the ratio of oranges to total pieces of fruit (in simplest form)?

4) Complete the table below. Find the unit rate.

	<u>Rate</u>	<u>Unit Rate</u>
180 miles in 3 hours		

5-7: Classify each rate. Write **unit rate** or **not unit rate**.

5) 3 feet per minute _____	6) 4 miles every $\frac{1}{2}$ hour _____	7) \$1.69 per pound _____
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8) Mr. Campbell has 15 tests and 12 quizzes to return. Ms. Smith has 45 tests and 48 quizzes to return. For each teacher, write a ratio to represent the number of tests to the number of quizzes they have to return. Are the ratios equivalent? Explain.

Mr. Campbell: _____

Ms. Smith: _____

9) James has quite a bit of free time each day. He often spends 4 hours on the computer and the other 2 hours playing basketball. What is his ratio of basketball to computer time?

10) Janice takes a 50 mile road trip and her car uses 3 gallons of gas. Mike takes a 160 mile road trip and uses 12 gallons of gas. Whose car gets better gas mileage? (HINT: FIND THE UNIT RATE)

Scan Me for an Exit Ticket

