

Name:	Date:
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## Unit 3 Lesson 1 Guided Notes

<b>Unit Guiding Question</b>	<i>When and why do I use proportional comparisons?</i>
<b>Objective</b>	I can determine unit rates.


**Directions:** As you go through the PPT and watch the video made by your teacher, complete the guided notes below to ensure your understanding of the content. Be sure to challenge yourself and persevere through new concepts. ***If you have a question:*** 1) *Re-watch the video* 2) *Ask a friend* 3) *Ask your teacher*

Vocabulary Review				
	Ratio	Equivalent Ratios	Rate	Unit Rate
Definition				
Example				

\*\*Finding the unit rate is a great way to **COMPARE** different rates\*\*

Finding the Better Buy
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Value-Mart is advertising a Back-to-School sale on pencils. A pack of 30 pencils sells for \$7.97, whereas a 12-pack of the same brand costs \$4.77. Which is the better buy? How do you know?



### When Do I Round?

When rounding a number...

1. Find the place value.
2. Locate the number to the right. If that number is....

**5 or More** - \_\_\_\_\_ **(Round Up!)**

**4 or Less** - \_\_\_\_\_ **(Keep the Same!)**

Example:

### Practice with Unit Rates

#### HELPFUL HINT

When setting up your ratios, typically...

**MONEY ON TOP:** \_\_\_\_\_

**TIME ON BOTTOM:** \_\_\_\_\_

1. A scuba diver takes 5 minutes to dive to a depth of 65 feet. What is the unit rate at which the diver descends (in feet per minute)?

2. At the 2017 Coney Island hot dog eating contest, Joey Chestnut ate 72 hot dogs in 10 minutes. What was the average rate at which he ate the hot dogs (in hot dogs per minute)?

3. At Costco, you can buy 8 toothbrushes for \$10. What is the unit cost per toothbrush?

4. A person walks  $\frac{1}{2}$  a mile in  $\frac{1}{4}$  of an hour. What is the unit rate at which the person is walking?

**Additional Notes:**