Lesson 5-2 Notes Unit Rates and Proportional Reasoning

What is a rate?

Rate: A ratio that compares quantities in different units.

Ex) I can type 112 words in a minute. ______ 112 words

Ex) A box of cereal that contains 8 servings has a total of 36 grams of fat.

Ex) Two rounds of golf at the club cost \$35.00. $\frac{$35}{2r}$

What is a unit rate?

Unit Rate: A rate for one unit of a given quantity.

- Ex) In the US **unit rate** of speed is often measured in mph or $\frac{miles}{hour}$.
- Ex) A bag of chips has 12 g of fat per serving.

List two more examples of common unit rates:

\$/round of golf

taxis \$/mile

\$/gallon gass

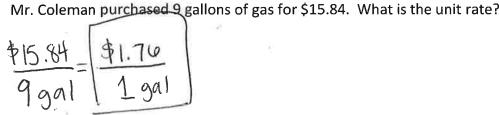
We can calculate the unit rate:

Ex) Jack bought 3 pounds of apples for \$7.50. What is the unit rate?



Just divide the first quantity by the second quantity!

You Try!



R how much is

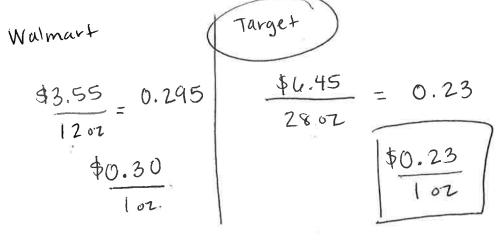
We often use unit rates to compare prices, performance or quality of goods.

For example, if Store X sells \$3.99/lb. and Store Y sells it for \$4.59/lb., which is the better deal?

Which is the better buy?

Walmart sells a 12 oz. bag of M&Ms for \$3.55. Target sells a 28 oz. bag of M&Ms for \$6.45. Which is a

better deal?



The table below shows prices for different sizes of the same dish soap. Which is the better buy?

	Size	Volume (oz)	Price
*	Regular	12	\$1.20
	Family	28	\$2.24
	Economy	40	\$3.60