1.3 Unit Rates (6.RP.2, 6.RP.3, and 6.RP.3b)

Vocabulary Start-Up

Definition	Examples
fraction: A number that represents part of a WNULL or part of a Set	1 3 9 45 2' 4' 12' 3
ratio: A comparison of two quantities by division.	2 out of 3, 2 to 3, 2:3, $\frac{2}{3}$
rate: A ratio comparing two quantitles with different kinds of Units.	36 miles 3 hours 36 miles for every 3 hours \$26 for 5 bags 19 songs in 5 minutes
unit rate: A rate that is simplified so that it has a denominator of one (1)	12 miles 1 hour, 12 miles per hour \$5.20 for 1 bag 3.8 songs in 1 minute

Vocabulary

Rate - a ratio comparing two quantities with different kinds of units.

Unit Rate - a rate written as a fraction with a denominator of 1 unit.

Unit Price - a unit rate that is the cost per unit.

Guided Practice

Steps:

- 1. Write the two quantities as a rate.
- 2. Divide both numerator and denominator by the denominator.

1.3 Unit Rates (6.RP.2, 6.RP.3, and 6.RP.3b)
Write each rate as a unit rate.
1.) 44 points in 4 quarters 44 points 11 points 4 quarters 1 quarter
4 quarters 1 quarter
2.) 125 feet in 5 seconds 125 ft (5) 25 ft 5 sec (5) 1 sec
3.) 360 miles traveled on 12 gallons of gasoline. 360 miles 12 gal 12 gal 12 gal
4.) 12 meters in 28 seconds
$3\sqrt{12} = \frac{12.43}{28.47}$ $\frac{12 \text{ m}}{28 \text{ sec}}$ $\frac{3}{7} \text{ m}$ $\frac{3}{7} \text{ m}$ $\frac{3}{7} \text{ m}$
5.) Molly shot 20 baskets in 4 minutes. Nico shot 42 baskets in 6 minutes. How many more
Molly 20 bas +4 5 bas Nico 42 bas +6 7 bas
Molly 20 bas +4 5 bas Nico 42 bas +6 7 bas 4 min =7 1min le min +6 1min 2 basket
6.) For Caroline's birthday, her mom took her and 4 friends to a water park. Caroline's mom paid \$40 for 5 student tickets. What was the price for one student ticket?
5 tickets :5 \$8 1 ticket
Building on the Essential Question - How are rates and ratios related?
A rate is a ratio that compares two
quantities with different unity (miles per hour)
Rate Yourself - Check the correct statement.

I Rate Yourself!

I understand how to find an unit rate.

I still have some questions about unit rate.