7.RP.1 Unit Rates

~ I can calculate unit rates.	^	I can use unit rates to solve real life p	roblems
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# art I: Rate and Unit Rate

### Rates and Unit Rates

- Rate is a ratio of 2 measurements having different units.
- You must include units when writing rates!! Example: 1) 75 miles in 3 hours

75 miles 3 hours

2) 3 pizzas for 8 people Borral

A Unit rate is a rate that has been simplified so that the denominator is

Find the Unit rate by dividing the numerator by denominator top - bottem

1 on the bottom

**Example:** 3 pizzas for 8 people  $\frac{3 pizzas}{8 people} \frac{-8}{-8} = \frac{0.375 pizzas}{1 person}$ or 0.375 (3/8) of a pizza per person

PROBLEM	RATE	UNIT RATE
75 miles for 3 hours	75miles † 3	25 miles 1 hr
10 people to 4 pizzas	10 people 4 pizzas	2.5 people   prza
\$50 for 5 GB of data	\$ 50 5GB	IGB

1) Mrs. Edwards travels 250 miles every other weekend to Hatteras, North Carolina. It takes about 4 hours. What is my average speed in Miles per hour? 250 mi 62.5mph

2) LeBron James played a total of 82 games last season and scored 2,255 points. On Average, how many points did he score per game?

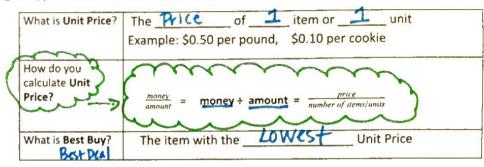
2255 points 7,5 points

3) A Skydiver falls 280 feet in 4 seconds. How many feet does the skydiver fall per second?

4) Mrs. Ray used 6 gallons to drive 180 miles. How many miles per gallon does her car get?

## Part II: Unit Price and Best Buy

Shoppers need to be able to calculate Unit Prices to find the Best Buy.



## Below is information about Choco Chippies Cookies

Package Size	Number of Cookies	Package Price	Unit Price
Snack	4	\$0.50	\$0.50 = \$0.13/cookie
Regular	17	\$1.39	\$1.39 = \$0.08/cookie
Family	46	\$3.99	3.99 =\$0.09/cookie
Giant	72	\$5.29	5.29 = \$0.07/cokie

Put the packages in order from best buy to worst buy.

Giant, Regular, Family, Snack

Best Buy

## TRY IT: Find the best buy. Show your work!!

1) 6 drinks for \$4.50 of 12 drinks for 8.25?

3, 12 packs of pepsi for \$10

8.25 40.61

2) 4 doughnuts for \$2.30 or a dozen

ughouts for \$7,20? 3) 1, 12 pack of pepsi for \$3.99 3.99 10.33 . 4) One dozen donuts for \$8.99

3 dozen donuts for 52

24 pack of pensi for \$5.99 7 10

1/2 dozen fir \$5.00