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Mr. Rogove

Math ______, Period _____

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LEARNING OBJECTIVE: We will work with proportional relationships in terms of average speed and constant speed. (G8M4L9)

CONCEPT DEVELOPMENT:

Rates: A proportional relationship between two quantities.

Examples: 3 coughs for Isneeze

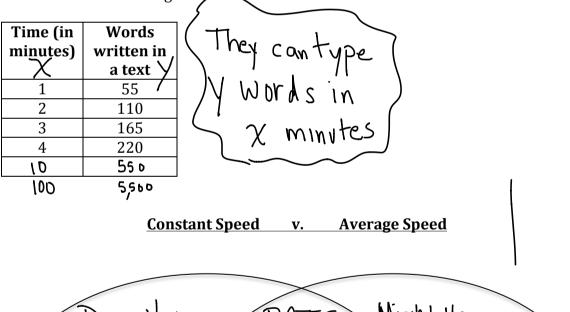
- Six tacos cost \$7.50 at Taco Bell
- I can walk 3 miles in 48 minutes.
- My camera can take 10 pictures in 2 seconds. ID COWS in every sq.A.
 I can text 120 words every 1.5

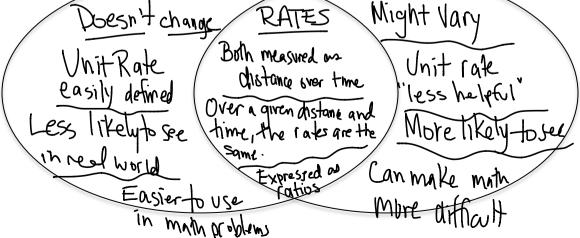
Non-Examples:

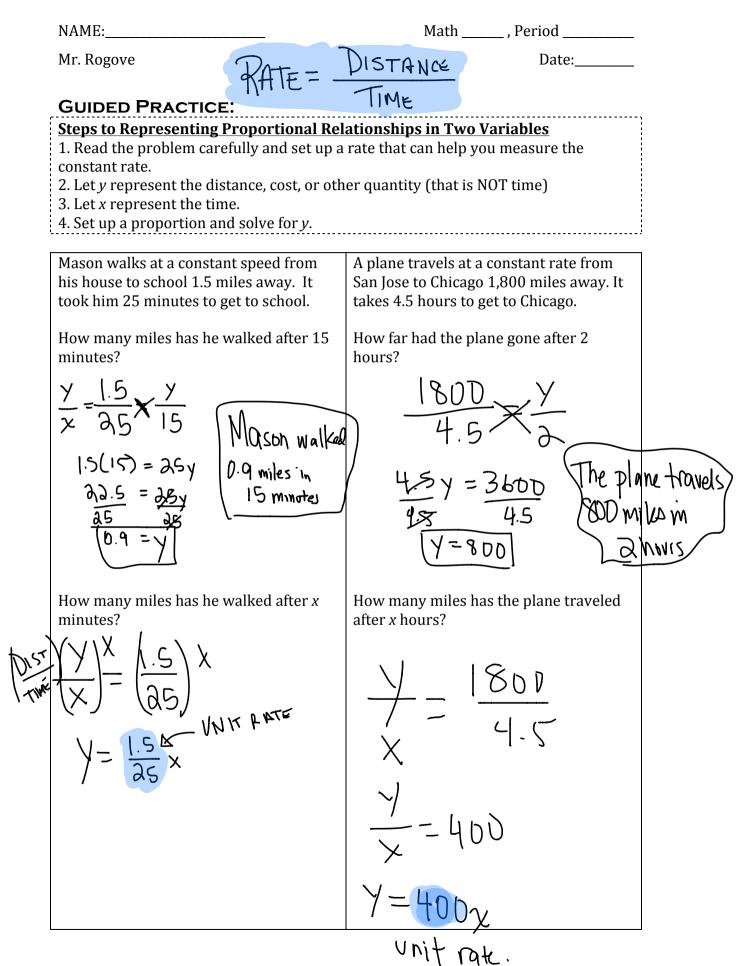
- In a race, I spent 43 minutes on the first 4 miles, and 42 minutes on the last 3 miles.
- Each year, I grow 10% bigger than • the year before.
- minutes. Swim5 laps in 10 minutes

We can express proportional relationships by creating tables.

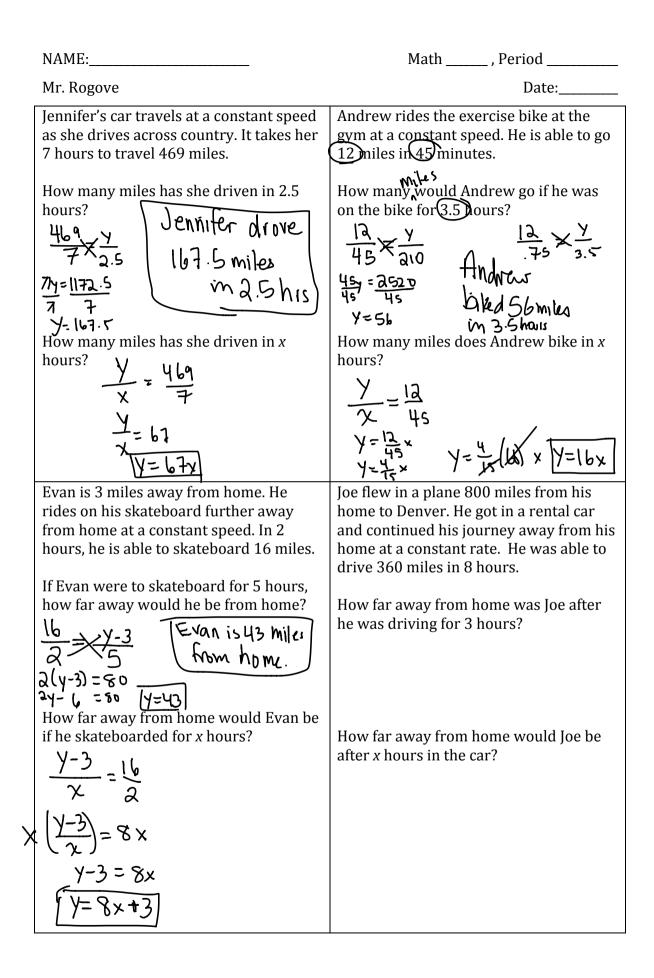
Example: If a 7th grader can write texts at a constant rate of 55 words per minute, we can create the following table







G8M4L9: Average Speed and Constant Speed: Proportional Relationships



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INDEPENDENT PRACTICE:

INDEPENDENT PRACTICE:	
Shannon is running around the track at a	Colby is swimming in a lake at a steady
constant rate. She can run 4 laps in $5\frac{1}{2}$	rate. He swims 900 yards in 21 minutes.
minutes. How long would it take her to run 6 laps?	How long does it take him to swim 500 yards?
How long does it take Shannon to run x laps?	How long would it take him to swim <i>x</i> yards?
Eric drives 25 miles from his home to a bike trail with his bike on the bike rack attached to his car. He then rides his bike further away from home at a constant rate. He rides his bike 162 miles in 9 hours.	Create your own question here. Share it with the person you're sitting next to.
How far away from home is he after riding his bike for 5 hours?	
How far away from home is Eric after riding his bike for <i>x</i> hours?	

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ACTIVATING PRIOR KNOWLEDGE:

We remember how to calculate unit rates...

James can bike 25 miles in 3 hours. How many miles can he bike in one hour?	Chloe can text 190 words in 3 minutes. How many words can she text each
	minute?

CLOSURE:

No closure??

TEACHER NOTES:

This might be a review lesson, or maybe not...first chance to introduce two variables. Maps to Module 4, Lesson 10 of ENY. IM DVD Profits can be group practice problem and closure