

# Math Lesson Plan

Zeb Hammond June 21, 2020



- Ratios and Proportional Relationships

- 7th grade
- Missouri Learning Standards (MLS)
- 7.RP.A.1

- Ratios and Proportional Relationships

- 7th grade
- Common Core State Standards
- [CCSS.MATH.CONTENT.7.RP.A.1](#)
- [CCSS.MATH.CONTENT.7.RP.A.2](#)



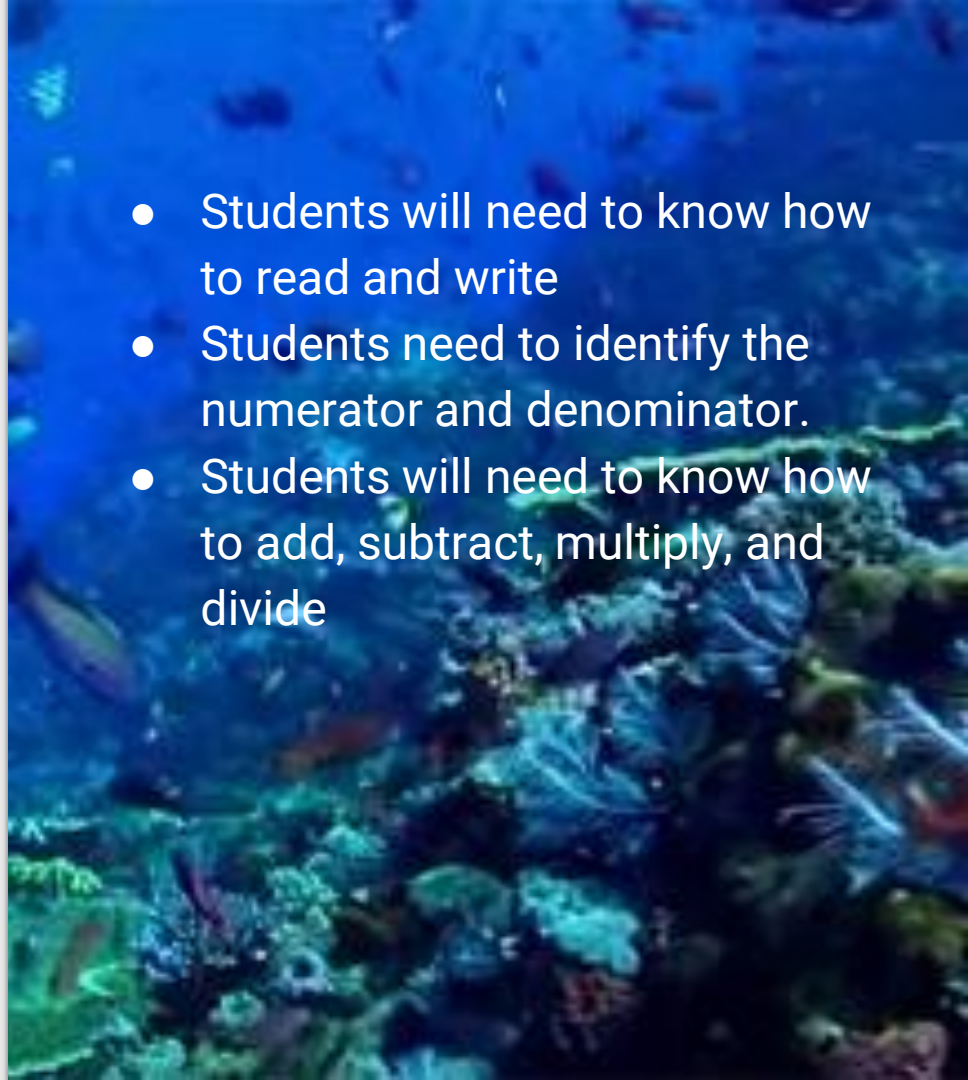
# Objective

**ANALYZE PROPORTIONAL RELATIONSHIPS AND USE THEM TO SOLVE PROBLEMS.**

**Compute unit rates, including those that involve complex fractions, with like or different units.**

# Prior Knowledge Needed

- Students will need to know how to read and write
- Students need to identify the numerator and denominator.
- Students will need to know how to add, subtract, multiply, and divide



Let's look at an example how to compute a problem with unit rates by simplifying complex fractions.

<https://www.youtube.com/watch?v=sdQzHPwrG4o>



Let's try this as a class.

Grandma's famous pie recipe used  $\frac{2}{3}$  cup of sugar for every 2 teaspoons of milk. How much sugar was used per teaspoon of milk?

- A. 3
- B.  $1 \frac{1}{3}$
- C.  $2 \frac{2}{3}$
- D.  $\frac{1}{3}$

# Answer

To solve, take  $2/3$  divided by 2 ( $2/3 / 2$ )

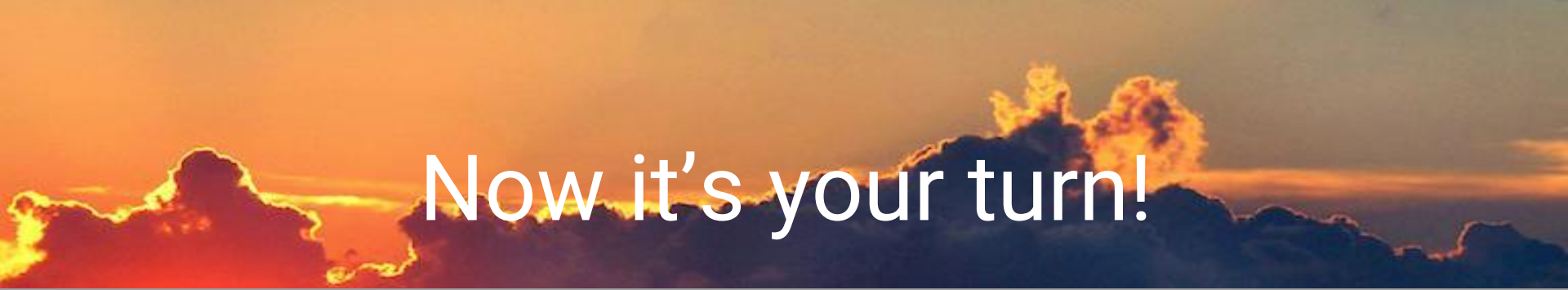
To find the answer of  $2/3 / 2$ , you can multiply the reciprocal:

$$2/3 \times 1/2 =$$

$$\frac{2 \times 1}{3 \times 2} = \frac{2}{6} = \frac{1}{3}$$

The answer is D.  $1/3$





Now it's your turn!

Unit Rate-Complex Fractions