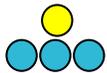


Dear Seventh Grade Families,

In Unit 3, students will work on the following seventh grade Common Core standards in the Ratios and Proportional Relationships (RP) domain.

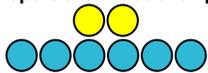
7.RP.1	Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units. For example, if a person walks $\frac{1}{2}$ mile in each $\frac{1}{4}$ hour, compute the unit rate as the complex fraction $\frac{\frac{1}{2}}{\frac{1}{4}}$ miles per hour, equivalently 2 miles per hour.
7.RP.2	<p>a. Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin.</p> <p>b. Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.</p> <p>c. Represent proportional relationships by equations. For example, if total cost t is proportional to the number n of items purchased at a constant price p, the relationship between the total cost and the number of items can be expressed as $t = pn$.</p>

Proportion



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

Proportional Relationship



Real Life Application:

If 5 apples cost \$2, how much would 20 apples cost?

$$\frac{5 \text{ apples}}{2 \text{ dollars}} = \frac{20 \text{ apples}}{C \text{ (cost)}}$$

Unit 3 Concepts:

- Ratios and Proportions
- Proportional Relationships
- Unit Rate
- Proportions and Equations
- Proportions and Graphs
- Applications of Proportional Relationships

Unit 3 Vocabulary:

- Rate
- Unit
- Unit Rate
- Ratio
- Proportion
- Inverse Operations
- Proportional Relationship
- Coordinate Plane
- Ordered Pair
- Interpret
- Constant of Proportionality
- Proportional Equation

Ask questions like these to help your child as a productive mathematical thinker:

- What is the relationship between these units?
- How can you tell if your answer makes sense?
- What predication or generalization can these equations support?
- What shortcuts could help you?

Need a review?

Have your student login to Swun Math to access lesson support videos.

We encourage you to talk with your child daily about what was learned in math class.

Thank you for your support!