

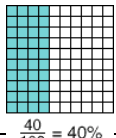
Grade 6 Mathematics Unit Preview

Quarter 4: Number Relationships and Computation (Ratios and Percents)

Objectives: (Your student will be able to)

- **Read and write ratio notations to compare two quantities.** For example, $1:2 = 4:8$.
- **Write equal ratios by finding equivalent fractions.** For example, $2/3 = n/9$.
- **Write a proportion to solve a problem.** For example, the utensils to plate ratio is 3:1. If there are 64 plates, how many utensils are there?
- **Select and then apply appropriate problem solving strategies to solve problems involving ratios.**
- **Identify and represent equivalent fractions, decimals, and percents.** For example, $\frac{3}{12} = .25 = 25\%$.
- **Calculate the percent of a given number to solve problems involving sales and tips.**
For example, 15% of $\$50.00 = \7.50
- **Identify and represent a fraction as a percent.**

Vocabulary: (Words your student will need to understand)

<ul style="list-style-type: none"> • Decimal: A number with one or more digits to the right of the decimal point. 	<ul style="list-style-type: none"> • Proportion: An equation that shows that two ratios are equal, (e.g., $3/4 = 6/8$).
<ul style="list-style-type: none"> • Equivalent decimal: Decimals that name the same amount. For example: $.5 = .50 = .500$ 	<ul style="list-style-type: none"> • Equivalent fraction: Fractions that name the same amount. For example, $6/8$ and $\frac{3}{4}$ are equivalent.
<ul style="list-style-type: none"> • Fraction: A number that names part of a whole or part of a group. 	<ul style="list-style-type: none"> • Percent: The ratio of a number to 100; percent means “per hundred.” <div style="text-align: center;">  <p>40% of the squares are shaded</p> </div>
<ul style="list-style-type: none"> • Ratio Notation: The ways ratios can be written, (e.g., ratios can be written using the word “to”, using a colon (:), and as a fraction form. ♠ ♠ ♠ <p>For example, the ratio of hearts to diamonds can be shown as: 2 to 1, 2:1, or 2/1</p>	<ul style="list-style-type: none"> • Ratio: The comparison of two numbers by division. ♣ ♣ ♣ ♦ ♦ <p>For example, the ratio of clubs to all shapes is 3 to 5 (part to whole). The ratio to all shapes to diamonds is 5 to 2 (whole to part).</p>

Activities to do with your student (in addition to homework, optional):

- Create fractions. Convert your fraction to decimals or percents.
- Create fractions. Find different fractions that are equivalent to the original fraction.
- Create ratios for objects around the house. For example, the ratio of male shoes to female shoes.

