

Grade 4 Mathematics Unit Preview

Quarter 2: Number Relationships and Computation (Fractions and Probability)

Objectives: (Your student will be able to)

- Read and write a fraction for given region or part of a set and identify the numerator and denominator.
- Identify a fraction as greater than, less than, or equal to one.
- Estimate the value of a fraction as being close to zero, one-half, or one. (For example, $\frac{5}{6}$ is close to one)
- Compare and order fractions or mixed numbers using the symbols $<$, $>$, or $=$ and locate their positions on a number line. (For example, $\frac{2}{5} < \frac{3}{4}$)
- Simplify fractions to lowest terms. (For example, $\frac{8}{12} = \frac{2}{3}$)
- Rename improper fractions as mixed numbers and simplify. For example, $\frac{6}{4} = 1\frac{2}{4} = 1\frac{1}{2}$.
- Add and subtract fractions with like denominators.
- Find the probability of an event and express as a fraction.
- Describe the likelihood of an event by using the terms certain, impossible, more likely, less likely, or equally likely.

Vocabulary: (Words your student will need to understand)

• Numerator: The number above the bar in a fraction that tells how many parts of the whole.	• Denominator: The number below the bar in a fraction that tells how many equal parts are in the whole.
• Simplify (lowest terms): When one is the only number that can divide evenly into the numerator and the denominator.	• Region: A whole split into equal parts (slicing a whole pizza).
• Probability: The likelihood that an event will happen	• Set: A collection of items or shapes
• Whole: all part put together (undivided).	• Rename: write a fraction in a different way

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

- Draw different shapes. Divide them into different fractions.
- Create numbers to use in fractions. Draw these fractions as parts of a whole or set.
- Use measuring cups when baking or cooking.
- Pick numbers to create fractions. Practice simplifying them. -or- Make a list of fractions that can be simplified and a list of fractions that cannot.
- Practice multiplication and division facts.

