

Grade 5 Mathematics Unit Preview

Quarter 2: Number Relationships and Computation (Fractions)

Objectives: (Your student will be able to)

- **Read, write, and represent a fraction for a given region or part of a set.**
- **Find factors and greatest common factors.** For example, factors of 8 are 1, 2, 4, 8. The factors of 12 are 1, 2, 3, 4, 6, and 12. The common factors of 8 and 12 are 1, 2, and 4. The greatest common factor is 4.
- **Simplify fractions using the greatest common factor.** For example, to simplify: $\frac{8}{12}$

The factors of 8 are 1, 2, 4, 8 and the factors of 12 = 1, 2, 3, 4, 6, 12

The common factors of 8 and 12 are 1, 2, 4

Greatest Common Factor (GCF) = 4

So simplify the fraction by dividing by $\frac{4}{4}$. $\frac{8}{12} \div \frac{4}{4} = \frac{2}{3}$. So $\frac{8}{12}$ simplifies to $\frac{2}{3}$.

- **Compare and order fractions and mixed numbers with like and unlike denominators and located their positions on a number line.** (See Vocabulary)
- **Add and subtract fractions with like and unlike denominators.** (See Vocabulary)
- **Rename mixed numbers as improper fractions and improper fractions as mixed numbers.** (See Vocabulary)

Vocabulary: (Words your student will need to understand)

<ul style="list-style-type: none"> • Equivalent Fractions: Two or more fractions with the same value. Example: $\frac{1}{2} = \frac{2}{4}$ 	<ul style="list-style-type: none"> • Numerator: The number above the line in a fraction. The numerator represents how many pieces of the whole, or how many parts of a set, that are discussed.
<ul style="list-style-type: none"> • Improper Fraction: A fraction where the numerator is greater than the denominator. 	<ul style="list-style-type: none"> • Denominator: The number below the line in a fraction. The denominator represents the number of equal pieces the whole is broken into.
<ul style="list-style-type: none"> • Mixed Number: A number that is made up of a whole number and a fraction 	<ul style="list-style-type: none"> • Sum: The answer to an addition problem.

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

- Create or pick numbers to make fractions. Add, subtract, or simplify the fractions that you make.
- Find examples of fractions around the house or neighborhood. Add, subtract, or simplify the fractions that you find.
- Practice simplifying different fractions by finding the greatest common factor.
- Practice basic facts.

