Student Name: Class: Due Date:
Introduction to Fractions
What are Fractions? Fractions are a way of showing part of a whole. It consists of a numerator (the top number) and a denominator (the bottom number). For example, 1/2 is a fraction that shows one part out of two equal parts.
Practice Exercise 1: 1. Write the fraction for the shaded part of the picture: Fraction Picture

What are Equivalent Fractions? Equivalent fractions are fractions that have the same value, but with different numerators and denominators. For example, 1/2 and 2/4 are equivalent fractions.
Practice Exercise 2: 1. Find the equivalent fraction for 3/4 with a denominator of 8.
Simplifying Fractions
What is Simplifying Fractions? Simplifying fractions involves reducing a fraction to its simplest form by dividing both the numerator and denominator by their greatest common divisor. For example, 4/8 can be simplified to 1/2.
Practice Exercise 3: 1. Simplify the fraction 6/8.

Equivalent Fractions

How to Add and Subtract Fractions To add or subtract fractions, they must have the same denominator. For example, $1/4 + 1/4 = 2/4$, which can be simplified to $1/2$.
Practice Exercise 4: 1. Add the fractions 1/4 and 1/4.
Real-World Applications
Real-World Applications of Fractions Fractions have numerous real-world applications, including measuring ingredients for a recipe, dividing a pizza among friends, and measuring the length of an object.
Practice Exercise 5: 1. A recipe requires 3/4 cup of sugar. If you want to make half the recipe, how much sugar will you need?

Adding and Subtracting Fractions

Activities

Activity 1: Create a Fraction Wall

Create a fraction wall using paper strips to visualize the concept of equivalent fractions.

Activity 2: Play Fraction War

Play a game of "Fraction War" to practice adding and subtracting fractions.

Assessment

Assessment 1: Short Quiz

Write a short quiz to assess your understanding of fractions.

Assessment 2: Project

Create a project that applies fractions to a real-world scenario.

Conclusion

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Fractions are a fundamental concept in mathematics that can be challenging for some students to grasp. However, with the right approach and practice, students can master fractions and develop a deep understanding of this essential mathematical concept.

Extension

Extension Activity 1: Research and Presentation

Research and create a presentation on a real-world application of fractions.

Extension Activity 2: Design a Game

Design a game that involves fractions.

Glossary

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- Fraction: a way of showing part of a whole
- Numerator: the top number in a fraction
- Denominator: the bottom number in a fraction
- Equivalent fractions: fractions that have the same value, but with different numerators and denominators
- Simplify: to reduce a fraction to its simplest form