Introduction to Fractions
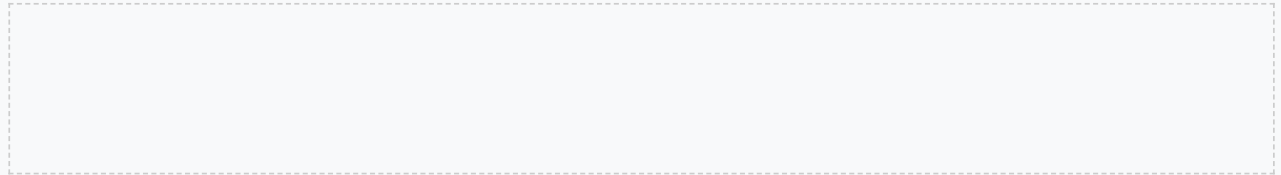
What is a fraction? A fraction is a way of showing part of a whole.

Example: 1/2 is a fraction that shows one equal part out of two.

Activity: Draw a picture to show 1/2 of a pizza.

Understanding Decimals

What is a decimal? A decimal is a way of showing part of a whole using a point to separate the whole from the part.

Example: 0.5 is a decimal that shows one-half.

Activity: Write the decimal equivalent of the fraction 1/2.

Equivalent Fractions

What are equivalent fractions? Equivalent fractions are fractions that have the same value, but with different numerators and denominators.

Example: 1/2, 2/4, and 3/6 are equivalent fractions.

Activity: Match the equivalent fractions.

Converting Fractions to Decimals

How do we convert fractions to decimals? We divide the numerator by the denominator.

Example: Convert the fraction 1/2 to a decimal.

Activity: Convert the following fractions to decimals: 1/4, 3/4, 2/3.

Converting Decimals to Fractions

How do we convert decimals to fractions? We write the decimal as a fraction with a denominator of 10, 100, or 1000.

Example: Convert the decimal 0.5 to a fraction.

Activity: Convert the following decimals to fractions: 0.25, 0.75, 0.125.

Real-World Applications

How are fractions and decimals used in real life? Fractions and decimals are used in measuring ingredients for a recipe, calculating distances, and comparing prices.

Activity: Solve the following real-world problems:

1. A recipe calls for 3/4 cup of sugar. If you want to make half the recipe, how much sugar will you need?
2. A book costs $15.99. If you pay with a $20 bill, how much change will you get?

Word Problems

Read and solve the following word problems:

1. Tom has 1/2 of a pizza. His friend, Alex, has 1/4 of a pizza. Who has more pizza?
2. A water tank can hold 3/4 of a gallon of water. If 1/2 of the tank is already filled, how much more water can you add?

Fraction and Decimal Bingo

Play a game of bingo using fractions and decimals.

Call out the fractions and decimals, and mark the corresponding numbers on your bingo card.

Fraction and Decimal Scavenger Hunt

Go on a scavenger hunt around the classroom or school to find examples of fractions and decimals.

Record your findings and explain how each example shows a fraction or decimal.

Review and Assessment

Review what you have learned about fractions and decimals.

Complete the following assessment questions:

1. What is the decimal equivalent of the fraction 3/4?
2. What is the fraction equivalent of the decimal 0.25?
3. Solve the following problem: A recipe calls for 2/3 cup of flour. If you want to make half the recipe, how much flour will you need?