Student Name: _____

Class: _____

Due Date: _____

Introduction and Warm-Up

Fractions and decimals are used to represent part of a whole. Can you think of examples where fractions and decimals are used in real life?

Match the following fractions to their equivalent decimals:

1. 1/2 = _____
2. 1/4 = _____
3. 3/4 = _____

Understanding Fractions

A fraction is a way of representing part of a whole. It consists of a numerator (top number) and a denominator (bottom number).

Example: 1/2 represents one equal part out of two.

Write the following fractions in simplest form:

1. 2/4 = _____
2. 6/8 = _____
3. 3/6 = _____

Understanding Decimals

A decimal is a way of representing a fraction as a numerical value.

Example: 0.5 is equal to 1/2.

Convert the following decimals to fractions:

1. 0.25 = _____
2. 0.75 = _____
3. 0.5 = _____

Equivalent Ratios

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

Example: 1/2 is equivalent to 2/4.

Find the equivalent ratios for the following fractions:

1. 1/2 = _____
2. 1/4 = _____
3. 3/4 = _____

Converting Between Fractions and Decimals

Convert the following fractions to decimals:

1. 1/2 = _____
2. 1/4 = _____
3. 3/4 = _____

Convert the following decimals to fractions:

1. 0.25 = _____
2. 0.75 = _____
3. 0.5 = _____

Real-World Applications

Scenario: A recipe calls for 3/4 cup of sugar. If you want to make half the recipe, how much sugar will you need?

Solve the following real-world problems:

1. A book costs $15.99. If you pay with a $20 bill, how much change will you get?
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?

Word Problems

Read each problem carefully and solve:

1. A group of friends want to share some candy equally. If they have 3/4 of a bag of candy and there are 4 friends, how much candy will each friend get?
2. A bike ride is 3/4 of a mile long. If you ride 1/2 of the distance, how much farther do you have to ride?

Mixed Numbers and Improper Fractions

A mixed number is a combination of a whole number and a fraction.

Example: 2 1/2 is a mixed number.

Convert the following mixed numbers to improper fractions:

1. 2 1/2 = _____
2. 1 3/4 = _____
3. 3 1/2 = _____

Review and Practice

Review: Fractions and decimals are used to represent part of a whole.

Convert the following fractions to decimals:

1. 1/2 = _____
2. 1/4 = _____
3. 3/4 = _____

Convert the following decimals to fractions:

1. 0.25 = _____
2. 0.75 = _____
3. 0.5 = _____

Challenge and Conclusion

Challenge: Create your own real-world scenario that involves fractions and decimals.

Conclusion: Fractions and decimals are essential concepts in mathematics. Remember to practice and apply your knowledge to solve real-world problems!