## Introduction to Fractions and Decimals

*Welcome to the Fractions and Decimals Worksheet! This worksheet is designed to help you understand and apply key concepts in fractions and decimals. You will have the opportunity to practice equivalent fractions, adding and subtracting fractions, converting between fractions and decimals, and applying these concepts to real-world problems.*

## Equivalent Fractions

*Choose the correct equivalent fraction for each question.*

1. Which of the following fractions is equivalent to 1/2?
   - A) 1/3
   - B) 2/4
   - C) 3/6
   - D) 4/8

2. Which of the following fractions is equivalent to 3/4?
   - A) 2/4
   - B) 3/6
   - C) 6/8
   - D) 9/12

3. Which of the following fractions is equivalent to 2/3?
   - A) 1/3
   - B) 2/4
   - C) 4/6
   - D) 6/9

## Simplifying Fractions

*Simplify each fraction.*

1. Simplify the fraction 6/8



2. Simplify the fraction 9/12

3. Simplify the fraction 8/10

## Adding and Subtracting Fractions

*Choose the correct answer for each question.*

1. What is the sum of 1/6 and 2/6?
   - A) 1/6
   - B) 2/6
   - C) 3/6
   - D) 4/6

2. What is the difference between 1/4 and 1/6?
   - A) 1/12
   - B) 1/8
   - C) 1/10
   - D) 1/12

3. What is the sum of 2/8 and 3/8?
   - A) 4/8
   - B) 5/8
   - C) 6/8
   - D) 7/8

## More Adding and Subtracting Fractions

*Calculate the sum or difference for each question.*

1. What is the sum of 1/4 and 1/4?



2. What is the difference between 3/6 and 2/6?

3. What is the sum of 2/10 and 3/10?

## Converting between Fractions and Decimals

*Choose the correct answer for each question.*

1. What is the decimal equivalent of 3/4?
   - A) 0.25
   - B) 0.5
   - C) 0.75
   - D) 1.0

2. What is the decimal equivalent of 2/5?
   - A) 0.2
   - B) 0.4
   - C) 0.6
   - D) 0.8

3. What is the decimal equivalent of 1/2?
   - A) 0.25
   - B) 0.5
   - C) 0.75
   - D) 1.0

## More Converting between Fractions and Decimals

*Convert each fraction to a decimal or vice versa.*

1. Convert the fraction 3/8 to a decimal



2. Convert the fraction 2/10 to a decimal

3. Convert the decimal 0.5 to a fraction

## Real-World Applications

*Solve each problem using fractions and decimals.*

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. Tom has $15 to spend on lunch. He buys a sandwich for $4.50 and a drink for $2.25. What fraction of his money has he spent?

3. A bookshelf has 5 shelves, and 3/5 of the shelves are filled with books. If the bookshelf can hold 20 books per shelf, how many books are on the bookshelf?

## Conclusion

*Congratulations on completing the Fractions and Decimals Worksheet! Review your answers and make sure you understand each concept. Ask your teacher for help if you need it.*