



Introduction (5 minutes)

Welcome to this worksheet on solving word problems involving fractions and decimals in everyday situations. This worksheet is designed for 8-year-old students and aims to help them develop their problem-solving skills and apply mathematical concepts to real-life scenarios.

Activity 1: Fraction and Decimal Conversion (15 minutes)

Convert the following fractions to decimals:

1. $1/2 =$ _____
2. $3/4 =$ _____
3. $2/5 =$ _____
4. $1/10 =$ _____
5. $3/10 =$ _____

Activity 2: Word Problem Solving (25 minutes)

Solve the following word problems:

1. A recipe calls for $1/4$ cup of sugar. If you want to make half the recipe, how much sugar will you need?

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2. A book costs \$15.99. If you have a 10% discount coupon, how much will you pay for the book?

3. A water tank can hold $3/4$ of a liter of water. If $1/2$ liter of water is already in the tank, how much more water can be added?

4. A pencil is 15 cm long. If it is divided into 5 parts, how long is each part?

5. A bakery sells $\frac{2}{3}$ of a cake for \$8. How much will the whole cake cost?

Activity 3: Real-Life Application (20 minutes)

Find and solve a word problem involving fractions or decimals from a real-life source, such as a newspaper, magazine, or online article.

Activity 4: Fraction and Decimal Games (25 minutes)

Play the following games to practice solving word problems involving fractions and decimals:

1. Fraction War: Play a game of war using fraction cards.
2. Decimal Bingo: Play a game of bingo using decimal numbers.
3. Word Problem Scavenger Hunt: Find and solve word problems involving fractions and decimals around the classroom or school.

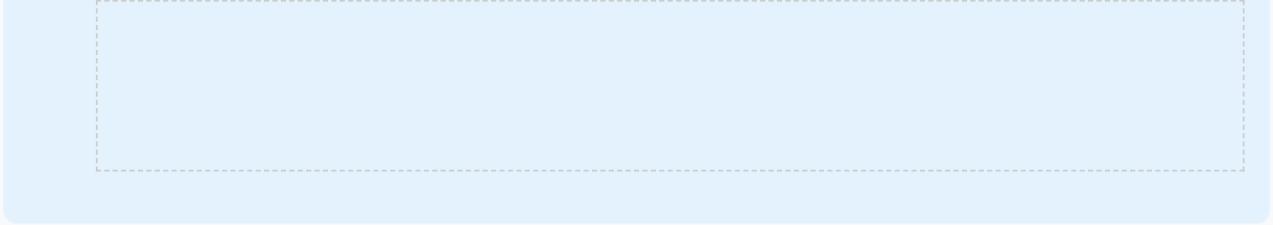
Activity 5: Reflection and Self-Assessment (10 minutes)

Individual Reflection:

1. What did you learn from this worksheet?

2. What challenges did you face?

3. How can you apply what you learned to real-life situations?



Differentiated Activities for Mixed-Ability Groups

Group Task:

Divide into groups based on ability and complete the following tasks:

1. For struggling students: Complete a simplified version of Activity 1 and 2.
2. For average students: Complete Activity 1 and 2 as is.
3. For advanced students: Complete an extended version of Activity 1 and 2, including more complex word problems.

Answer Key

Check your answers with the answer key below:

Activity 1: Fraction and Decimal Conversion

1. 0.5
2. 0.75
3. 0.4
4. 0.1
5. 0.3

Activity 2: Word Problem Solving

1. $\frac{1}{8}$ cup
2. \$14.39
3. $\frac{1}{4}$ liter
4. 3 cm
5. \$12

