

Student Name: _____

Class: _____

Due Date: _____

Introduction

This homework sheet is designed to reinforce the understanding of fractions and decimals, focusing on core operations such as addition, subtraction, multiplication, and division, and to explore their real-world applications.

Section 1: Fraction Operations

Addition and Subtraction of Fractions:

1. Add: $\frac{1}{4} + \frac{1}{4}$, $\frac{3}{8} + \frac{2}{8}$
2. Subtract: $\frac{3}{4} - \frac{1}{4}$, $\frac{5}{6} - \frac{3}{6}$

Multiplication and Division of Fractions:

1. Multiply: $\frac{1}{2} * \frac{3}{4}$, $\frac{2}{3} * \frac{3}{4}$
2. Divide: $\frac{1}{2} \div \frac{1}{4}$, $\frac{3}{4} \div \frac{1}{2}$

Section 2: Decimal Operations

Addition and Subtraction of Decimals:

1. Add: $0.5 + 0.2$, $1.8 + 2.1$
2. Subtract: $2.5 - 1.2$, $4.7 - 2.3$

Multiplication and Division of Decimals:

1. Multiply: $2.5 * 3$, $1.8 * 2$
2. Divide: $4.5 \div 1.5$, $6.3 \div 2.1$

Section 3: Real-world Applications

Choose one of the following scenarios and write a short story (about 100-150 words) incorporating fractions or decimals in a real-world context:

1. Planning a garden
2. Cooking a meal
3. Decorating a room

Choose any combination:

1. Create Your Own Word Problems: Design 3 word problems involving fractions and decimals and solve them.
2. Fraction and Decimal Bingo: Create bingo cards with fractions and decimals and play a game where you call out problems (e.g., " $\frac{1}{2} + \frac{1}{4}$ ") and mark the answer on your card.

Success Criteria

Accuracy in fraction and decimal operations.

Ability to apply fractions and decimals to solve real-world problems.

Quality of the short story in Section 3, including creativity and correct use of fractions or decimals.

Completion of all tasks within the given time frame.

Parent/Guardian Notes

Support Your Child: Encourage your child to read the instructions carefully and ask for help if they are unsure about any part of the assignment.

Time Management: Ensure your child manages their time effectively to complete the assignment within 30-40 minutes.

Resources: Have a calculator available for checking answers, but remind your child to show all their working.

Feedback: Review your child's work and provide feedback on their understanding and application of fractions and decimals.

Answer Key

(Insert answer key for all questions and activities)