Fraction and Decimal Assessment Worksheet

Introduction (5 minutes)

Read the introduction to the assessment and understand the objectives.

This worksheet is designed to assess students' understanding of fractions and decimals, including their ability to identify and explain the concept, perform operations, and apply them to real-world problems.

Section 1: Multiple Choice Questions (15 minutes)

Choose the correct answer for each question.

1. What is the definition of a fraction?
    a. A whole number divided by another whole number
    b. A decimal number divided by another decimal number
    c. A part of a whole
    d. A whole number multiplied by another whole number
2. What is the difference between a fraction and a decimal?
    a. A fraction is a whole number, while a decimal is a part of a whole
    b. A fraction is a part of a whole, while a decimal is a whole number
    c. A fraction is a ratio of two whole numbers, while a decimal is a part of a whole
    d. A fraction is a whole number, while a decimal is a ratio of two whole numbers
3. What is the result of adding 1/2 and 1/4?
    a. 3/4
    b. 1/2
    c. 1/4
    d. 3/2
4. What is the result of multiplying 2.5 and 3.8?
    a. 9.5
    b. 10.5
    c. 11.5
    d. 12.5
5. A recipe calls for 3/4 cup of sugar. If you want to make half the recipe, how much sugar do you need?
    a. 1/4 cup
    b. 1/2 cup
    c. 3/8 cup
    d. 1/8 cup
6. A car travels 250 miles in 5 hours. What is its average speed in miles per hour?
    a. 25 mph
    b. 50 mph
    c. 75 mph
    d. 100 mph

Section 2: Short Answer Questions (20 minutes)

Answer each question in complete sentences.

1. What are equivalent fractions? Provide an example.

2. Simplify the expression: 2 3/4 + 1 1/2

3. Convert the decimal 0.75 to a fraction.

4. A water tank can hold 3/4 of a gallon of water. If 1/4 of the tank is already filled, how much more water can be added?

5. A person invests $1000 at an interest rate of 2.5% per annum. How much will they have after 5 years?

6. A company's profit is $2500, which is 1/4 of the total revenue. What is the total revenue?

Section 3: Project-Based Question (20 minutes)

Design a recipe that requires the use of fractions and decimals in the ingredients and instructions.

[Space for recipe design]

Section 4: Performance Task (25 minutes)

Analyze and interpret the data presented in the following table:

Item	Price	Quantity
A	$2.50	3/4
B	$1.25	1/2
C	$3.75	2/3

Create a visual representation (graph, chart, or table) to display the data.

[Space for visual representation]

Section 5: Conclusion (10 minutes)

Reflect on what you have learned about fractions and decimals.

Individual Reflection:

1. What was the most challenging part of the assessment for you?
2. How will you apply what you have learned about fractions and decimals to real-world problems?

3. What questions do you still have about fractions and decimals?