PLANIT TEACHERS

Introduction to Fractions and Decimals Assessment

Student Name: _____	Class: _____
Student ID: _____	Date: _____

Assessment Details

Duration: 45 minutes	**Total Marks:** 100
Topics Covered:	• Equivalent Fractions • Adding and Subtracting Fractions • Converting Between Fractions and Decimals • Applying Fractions and Decimals to Real-World Problems

Instructions to Students:

1. Read all questions carefully before attempting.
2. Show all working out - marks are awarded for method.
3. Calculator use is permitted except where stated otherwise.
4. Write your answers in the spaces provided.
5. If you need more space, use the additional pages at the end.
6. Time management is crucial - allocate approximately 1 minute per mark.

Section A: Multiple Choice [20 marks]

Question 1 [2 marks]

Which of the following fractions is equivalent to 1/2?

A) 1/3	B) 2/4
C) 3/6	D) 4/8

Question 2 [2 marks]

Which fraction is equivalent to 3/4?

A) 6/8	B) 9/12
C) 12/16	D) All of the above

Question 3 [2 marks]

What is the sum of 1/6 and 2/6?

A) 1/6	B) 2/6
C) 3/6	D) 4/6

Question 4 [2 marks]

What is the difference between 1/4 and 1/6?

A) 1/12	B) 1/8
C) 1/3	D) 1/2

Question 5 [2 marks]

What is the decimal equivalent of 3/4?

A) 0.25

B) 0.5

C) 0.75

D) 1.0

Question 6 [2 marks]

What is the fraction equivalent of 0.5?

A) 1/2

B) 1/4

C) 3/4

D) 2/3

Question 7 [4 marks]

Simplify the fraction 6/8.

Question 8 [4 marks]

Simplify the fraction 9/12.

Question 9 [6 marks]

What is the sum of 1/4 and 1/6?

Question 10 [6 marks]

What is the difference between 2/3 and 1/4?

Question 11 [8 marks]

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

Question 12 [8 marks]

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?

Question 13 [10 marks]

You are planning a road trip that is 240 miles long. If you have already driven 3/4 of the distance, how many miles have you driven? If you want to stop for lunch after driving half of the remaining distance, how many miles will you have driven when you stop for lunch?

Multiple Choice Questions: 1 point for each correct answer

Short Answer Questions:

- Simplifying Fractions: 2 points for correct simplification
- Adding and Subtracting Fractions: 3 points for correct calculation
- Applying Fractions and Decimals: 4 points for correct application

Project-Based Question:

- Content Knowledge: 4 points for demonstrating understanding of fractions and decimals
- Problem-Solving: 3 points for applying fractions and decimals correctly
- Communication: 3 points for clear, organized, and easy-to-understand work