Introduction to Fractions and Decimals Assessment

Student Name: _____	**Class:** _____
Student ID: _____	**Date:** {{DATE}}

Assessment Details

Duration: 45 minutes	**Total Marks:** 100
Topics Covered:	• Fractions • Decimals • Equivalent Fractions • Conversions

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.

Foundation Level: Multiple Choice [10 marks]

Question 1 [2 marks]

What is the equivalent fraction for 1/2?

A) 2/4

B) 3/4

C) 1/4

D) 2/3

Question 2 [2 marks]

Which decimal is equal to 3/4?

A) 0.5

B) 0.75

C) 0.25

D) 0.9

Foundation Level: Short Answer [10 marks]

Question 3 [5 marks]

Convert the decimal 0.5 to a fraction.

Question 4 [5 marks]

Convert the fraction 1/4 to a decimal.

Foundation Level: Problem-Solving [10 marks]

Question 5 **[10 marks]**

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

Core Level: Multiple Choice [10 marks]

Question 6 **[2 marks]**

Which of the following fractions is equal to 0.75?

A) 1/2

B) 3/4

C) 2/3

D) 1/3

Question 7 **[2 marks]**

Which decimal is equal to 2/3?

A) 0.5

B) 0.66

C) 0.25

D) 0.9

Core Level: Short Answer [10 marks]

Question 8 [5 marks]

Convert the fraction 3/4 to a decimal.

Question 9 [5 marks]

Convert the decimal 0.25 to a fraction.

Core Level: Problem-Solving [20 marks]

Question 10 **[20 marks]**

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?

Extension Level: Problem-Solving [30 marks]

Question 11 [15 marks]

A bakery sells 1/2 kg of bread for £1.50. How much will 3/4 kg of bread cost?

Question 12 [15 marks]

A group of friends want to share some candy equally. If they have 2 3/4 kg of candy and there are 5 friends, how much candy will each friend get?

Extension Level: Short Answer [20 marks]

Question 13 [10 marks]

Explain the difference between a fraction and a decimal, and provide an example of when you would use each.

Question 14 [10 marks]

Convert the fraction 2/3 to a decimal and explain your method.