

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

Assessment Details

Duration: 45 minutes**Total Marks:** 100**Topics Covered:**

- Fractions
- Decimals
- Equivalent Ratios
- Comparing Fractions

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]

What is the equivalent fraction of $\frac{1}{2}$ with a denominator of 6?

A) $\frac{1}{6}$

B) $\frac{2}{6}$

C) $\frac{3}{6}$

D) $\frac{4}{6}$

Question 2

[2 marks]

What is the sum of $\frac{1}{4}$ and $\frac{1}{6}$?

A) $\frac{1}{10}$

B) $\frac{2}{10}$

C) $\frac{3}{10}$

D) $\frac{5}{12}$

Question 3

[2 marks]

What is the decimal equivalent of $\frac{3}{4}$?

A) 0.25

B) 0.5

C) 0.75

D) 1.0

Question 4

[2 marks]

What is the difference between $\frac{2}{3}$ and $\frac{1}{4}$?

A) $\frac{1}{12}$

B) $\frac{2}{12}$

C) $\frac{3}{12}$

D) $\frac{5}{12}$

Question 5

[2 marks]

What is the product of $\frac{1}{2}$ and $\frac{3}{4}$?

A) $\frac{1}{8}$

B) $\frac{2}{8}$

C) $\frac{3}{8}$

D) $\frac{5}{8}$

Section B: Short Answer Questions [40 marks]

Question 6

[8 marks]

A recipe calls for $\frac{3}{4}$ cup of sugar. If you only have a $\frac{1}{4}$ cup measuring cup, how many times will you need to fill the measuring cup to get the required amount of sugar?

Question 7

[8 marks]

Compare the fractions $\frac{2}{3}$ and $\frac{3}{4}$. Which one is greater?

Question 8

[8 marks]

A water tank can hold $\frac{3}{4}$ of a liter of water. If $\frac{1}{4}$ of the tank is already filled, how much more water can be added to the tank?

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Question 9

[8 marks]

A bakery sells $\frac{2}{3}$ of a cake for \$12. If you want to buy $\frac{1}{2}$ of the cake, how much will you pay?

Question 10

[8 marks]

What is the decimal equivalent of $\frac{2}{5}$?

Question 11

[10 marks]

A group of friends want to share some candy equally. If they have $\frac{3}{4}$ of a bag of candy and there are 6 friends, how much candy will each friend get?

Question 12

[10 marks]

A car travels $\frac{2}{3}$ of the distance from City A to City B in 2 hours. If the total distance is 240 miles, how many miles does the car travel per hour?

Question 13

[10 marks]

A farmer has $\frac{3}{4}$ of a field planted with wheat. If the field is 240 acres, how many acres are planted with wheat?

Question 14

[10 marks]

Describe a real-world situation where you would need to use fractions and decimals. Explain how you would solve the problem and provide a clear and concise answer.

