

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

Assessment Details

Duration: 45 minutes	Total Marks: 60
Topics Covered:	<ul style="list-style-type: none">• Adding Fractions with Like Denominators• Adding Fractions with Unlike Denominators• Word Problems Involving 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.

Question 1

[2 marks]

Add the following fractions using visual aids (e.g., fraction walls, number lines):

$$\frac{1}{4} + \frac{1}{4} = ?$$

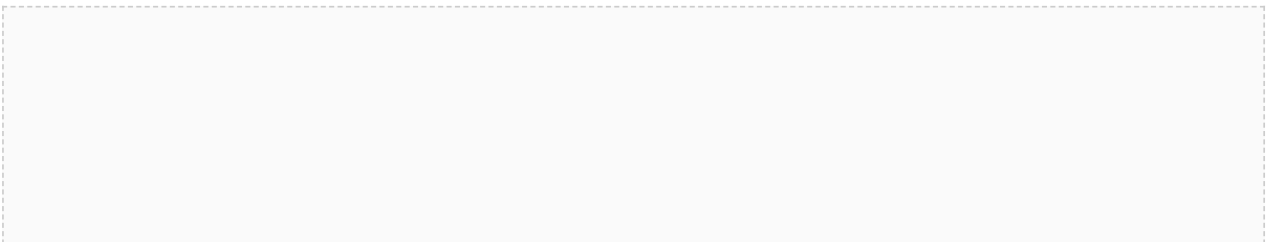


Question 2

[2 marks]

Solve the following simple word problem:

Tom has $\frac{1}{6}$ of a pizza. His friend gives him another $\frac{1}{6}$. What fraction of the pizza does Tom have now?



Question 3

[4 marks]

Add the following fractions without visual aids:

$$\frac{2}{8} + \frac{1}{8} = ?$$

Question 4

[4 marks]

Solve the following word problem:

A recipe requires $\frac{1}{4}$ cup of sugar. If you want to make half the recipe, what fraction of a cup of sugar will you need?

Question 5

[6 marks]

Add the following fractions without visual aids:

$$\frac{1}{4} + \frac{1}{6} = ?$$

Question 6

[6 marks]

Solve the following multi-step word problem:

A recipe requires $\frac{1}{4}$ cup of sugar and $\frac{1}{6}$ cup of honey. If you want to make half the recipe, what fraction of a cup of sugar and honey will you need in total?

Section 4: Mixed Ability Differentiation

Foundation Level: Provide visual aids for students who require extra support.

Core Level: Allow students to use calculators for checking their answers.

Extension Level: Offer more complex word problems for students who need a challenge.

Section 5: Marking Guide

Foundation Level: 1 mark for correct answer

Core Level: 2 marks for correct answer (1 mark for calculation, 1 mark for simplification)

Extension Level: 3 marks for correct answer (1 mark for calculation, 1 mark for simplification, 1 mark for reasoning)

Section 6: Implementation Guidelines

Time Allocation: 45 minutes for the entire assessment

Administration Tips:

- Provide visual aids for foundation level students.
- Allow core and extension level students to use calculators for checking their answers.
- Encourage students to show their working and reasoning.

Section 7: Differentiation Options

Learning Support: Provide one-to-one support for students who require extra help.

English as an Additional Language (EAL): Provide bilingual dictionaries and simplify word problems to focus on mathematical concepts.

Gifted and Talented: Offer more complex word problems and challenge students to create their own word problems involving adding fractions with unlike denominators.

Assistive Technology: Allow students to use text-to-speech software or other assistive technology to support their learning.

Section 8: Conclusion

This assessment is designed to evaluate students' understanding of adding fractions with like and unlike denominators.

The mixed ability differentiation options cater to different learning styles and abilities, ensuring that all students have the opportunity to demonstrate their knowledge and skills.

