

| Student Name: | Class: |
|---------------|----------------|
| Student ID: | Date: {{DATE}} |

Assessment Details

| Duration: 2 hours | Total Marks: 100 |
|-------------------|--|
| Topics Covered: | Fractions Decimals Operations with Fractions and Decimals Real-World Applications |

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.

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Section A: Multiple Choice [20 marks]

| Question 1 | [2 marks |
|---|---|
| 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 |
| Question 2 | [2 marks |
| What is the difference between a fraction and a dec | - |
| A) A fraction is a whole number, while a decimal | B) A fraction is a part of a whole, while a decimal |

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

| Question 3 | | [2 marks] |
|--|----------|-----------|
| What is the result of adding 1/2 | and 1/4? | |
| A) 3/4 | B) 2/4 | |
| C) 1/4 | D) 3/2 | |
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| Question 4 | | [2 marks] |
|--|---------|-----------|
| What is the result of multiplying 2.5 ar | nd 3.8? | |
| A) 9.5 | B) 10.5 | |
| C) 11.5 | D) 12.5 | |

| Question 5 | [2 marks |
|--|--|
| A recipe calls for 3/4 cup of sugar. If ye | ou 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 |

Section B: Short Answer Questions [40 marks]

Question 6

What are equivalent fractions? Provide an example.

Question 7

Simplify the expression: 23/4 + 11/2

Question 8

[8 marks]

[8 marks]

[8 marks]

Convert the decimal 0.75 to a fraction.

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Question 9

[8 marks]

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?

Question 10

[8 marks]

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

Section C: Project-Based Question [20 marks]

Question 11

[20 marks]

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

Section D: Performance Task [20 marks]

Question 12

[20 marks]

Analyze and interpret the data presented in the following table:

| Item | Price |
|------|--------|
| A | \$2.50 |
| В | \$1.25 |
| С | \$3.75 |

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

Conclusion

Reflect on what you have learned about fractions and decimals. How can you apply this knowledge to real-world problems?