EXAM-STYLE CLASS TEST

MARKS	DURATION	QUESTIONS
36	55 minutes	3

Name: _____ Class: _____

Date: _____

MARK ____ / 36

INSTRUCTIONS AND INFORMATION

1. Answer **ALL** the questions in this question paper.
2. Answer QUESTION 1 by **circling** the letter (A–D) in the answer grid at the end of that section.
3. Show **ALL** calculations clearly.
4. Show all units where applicable.
5. Number the answers correctly according to the numbering system used in this question paper.
6. A non-programmable calculator may be used, unless stated otherwise.
7. Write neatly and legibly.

QUESTION 1 [10 MARKS]

Four options are given as possible answers to the following questions. Choose the correct answer and circle the letter (A–D) in the grid at the end of this section. If you want to change your choice, put a cross through the wrong letter and circle your new choice.

1.1 $\frac{2}{3} + \frac{1}{4} = \ldots$ (1)

A) $\frac{3}{12}$ **B)** $\frac{11}{12}$

C) $\frac{2}{12}$ **D)** $\frac{3}{7}$

1.2 $\frac{5}{6} - \frac{1}{3} = \ldots$ (1)

A) $\frac{4}{3}$ **B)** $\frac{2}{3}$

C) $\frac{4}{6}$ **D)** $\frac{1}{2}$

1.3 $1\frac{1}{2} + 2\frac{1}{3} = \ldots$ (1)

A) $3\frac{1}{6}$ **B)** $2\frac{5}{6}$

C) $3\frac{5}{6}$ **D)** $3\frac{2}{5}$

1.4 Before two fractions can be added, they must have ... (1)

A) the same denominator **B)** the same numerator

C) the same value **D)** whole-number parts

1.5 A tank is $\frac{3}{8}$ full. After $\frac{1}{4}$ more is added, the tank is ... full. (1)

A) $\frac{5}{8}$ **B)** $\frac{1}{2}$

C) $\frac{4}{8}$ **D)** $\frac{4}{12}$

1.6 $\frac{7}{10} - \frac{1}{5} = \ldots$ (1)

A) $\frac{9}{10}$ **B)** $\frac{6}{10}$

C) $\frac{1}{2}$ **D)** $\frac{6}{5}$

1.7 Which one of the following sums is GREATER than 1? (1)

A) $\frac{1}{3} + \frac{1}{4}$ **B)** $\frac{2}{5} + \frac{1}{2}$

C) $\frac{1}{2} + \frac{1}{3}$ **D)** $\frac{3}{4} + \frac{1}{2}$

1.8 The LOWEST common denominator of $\frac{1}{6}$ and $\frac{1}{8}$ is ... (1)

A) 48 **B)** 24

C) 14 **D)** 2

1.9 Thabo walks $\frac{1}{4}$ km, then $\frac{2}{3}$ km. How much further must he walk to complete 2 km? (1)

A) $1\frac{11}{12}$ **B)** $\frac{3}{7}$

C) $1\frac{1}{12}$ **D)** $\frac{11}{12}$

1.10 $5 - 2\frac{3}{4} = \ldots$ (1)

A) $2\frac{3}{4}$ **B)** $3\frac{3}{4}$

C) $3\frac{1}{4}$ **D)** $2\frac{1}{4}$

ANSWER GRID — CIRCLE YOUR ANSWERS FOR QUESTION 1

1.1	A	B	C	D
1.2	A	B	C	D
1.3	A	B	C	D
1.4	A	B	C	D
1.5	A	B	C	D
1.6	A	B	C	D
1.7	A	B	C	D
1.8	A	B	C	D
1.9	A	B	C	D
1.10	A	B	C	D

QUESTION 2

[13 MARKS]

Calculate the following WITHOUT using a calculator. Show ALL your steps and leave your answers in the simplest form.

2.1 $\frac{3}{4} + \frac{2}{5} - \frac{1}{2}$ **(4)**

2.2 $2\frac{1}{3} + 1\frac{1}{2} - \frac{3}{4}$ **(5)**

2.3 $\frac{5}{6} - (\frac{1}{3} + \frac{1}{4})$ **(4)**

QUESTION 3 [13 MARKS]

Answer the word problems below. Show ALL your working.

3.1 A water tank is $\frac{2}{3}$ full. During the day $\frac{1}{4}$ of the FULL tank is used. Determine the fraction of the tank that is left. **(4)**

3.2 Three pipes are $\frac{3}{4}\ m$, $\frac{2}{3}\ m$ and $\frac{5}{6}\ m$ long. Calculate their total length. **(4)**

3.3 A recipe needs $1\frac{1}{2}$ cups of sugar and $\frac{3}{4}$ of a cup of flour. Determine how much MORE sugar than flour is needed. **(3)**

3.4 A learner writes $\frac{1}{2} + \frac{1}{3} = \frac{2}{5}$. Explain the mistake. **(2)**

TOTAL: 36 marks

This question paper consists of 3 questions.

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