EXAM-STYLE CLASS TEST

MARKS	DURATION	QUESTIONS
33	50 minutes	3

Name: _____ Class: _____

Date: _____

MARK ____ / 33

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 Which one of the following fractions is equivalent to $\frac{2}{7}$? (1)

A) $\frac{2}{21}$ **B)** $\frac{9}{14}$

C) $\frac{4}{9}$ **D)** $\frac{6}{21}$

1.2 $\frac{42}{54}$ written in its simplest form is ... (1)

A) $\frac{7}{9}$ **B)** $\frac{6}{9}$

C) $\frac{14}{18}$ **D)** $\frac{21}{27}$

1.3 Which one of the following is the LARGEST fraction? (1)

A) $\frac{3}{5}$ **B)** $\frac{7}{12}$

C) $\frac{2}{3}$ **D)** $\frac{5}{8}$

1.4 A fraction is in its lowest terms when ... (1)

A) the denominator is a prime number **B)** the only common factor of the two parts is 1

C) the numerator is 1 **D)** the numerator is smaller than the denominator

1.5 $\frac{3}{4}$ of the learners in a class of 32 are present. How many are ABSENT? (1)

A) 12 **B)** 24

C) 4 **D)** 8

1.6 Which one of the following is NOT equal to $\frac{1}{2}$? (1)

A) $\frac{4}{6}$ **B)** $\frac{25}{50}$

C) $\frac{7}{14}$ **D)** $\frac{3}{6}$

1.7 $\frac{2}{5}$ written as a percentage is ... (1)

A) 20% **B)** 2,5%

C) 40% **D)** 25%

1.8 Multiplying the numerator and the denominator of a fraction by 3 ... (1)

A) leaves its value unchanged **B)** makes the fraction one third of its value

C) makes the fraction 3 times as big **D)** makes it a whole number

1.9 Which of the following lists is arranged from SMALLEST to largest? (1)

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

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

1.10 In a test Sipho scored $\frac{18}{24}$ and Ann scored $\frac{15}{20}$. Which statement is TRUE? (1)

A) Ann did better **B)** They scored the same

C) Sipho did better **D)** It cannot be compared

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 [14 MARKS]

Answer the questions below WITHOUT using a calculator. Leave all answers in their simplest form.

2.1 Fill in the missing number: $\frac{2}{7} = \frac{?}{21}$, and hence write $\frac{2}{7}$ with a denominator of 63. **(3)**

2.2 Simplify $\frac{84}{126}$ to its lowest terms. **(4)**

2.3 Arrange in ASCENDING order: $\frac{2}{3}$; $\frac{5}{8}$; $\frac{7}{12}$; $\frac{3}{4}$ **(4)**

2.4 Is $\frac{7}{9}$ in its lowest terms? Give a reason for your answer, and simplify $\frac{42}{54}$ fully. **(3)**

QUESTION 3 [9 MARKS]

Answer the questions below.

3.1 A learner writes $\frac{12}{18} = \frac{6}{9} = \frac{3}{4}$. Identify the step where the learner went wrong and give the correct answer. **(3)**

3.2 Explain why multiplying the numerator and the denominator by the same number does not change the value of a fraction. **(2)**

3.3 Determine which is larger, $\frac{5}{7}$ or $\frac{7}{10}$, and show how you decided. **(4)**

TOTAL: 33 marks

This question paper consists of 3 questions.

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