

TEST SCHOOL

121/2 MATHEMATICS

Paper 2

Mid Term 2

Time: 2 ½ Hours

Name: Adm No:
 School: Class:
 Signature: Date:

INSTRUCTIONS TO CANDIDATES

- (a) Write your name and index number in the spaces provided at the top of this page.
- (b) Write your school name, sign and write the date of the examination in the spaces provided above.
- (c) This paper consists of **Two** sections: **Section I** and **Section II**.
- (d) Answer **ALL** questions in Section I and any **five questions** from Section II.
- (e) Show all the steps in your calculations, giving your answers at each stage in the spaces provided below each question.
- (f) Marks may be given for correct working even if the answer is wrong.
- (g) Non-Programmable silent electronic calculators and KNEC Mathematical Tables may be used.
- (h) This paper consists of **4 printed pages**.
- (i) Candidates should check the question paper to ensure that all the pages are printed as indicated and no questions are missing.
- (j) Candidates should answer the questions in English.

For Examiner's Use Only

SECTION I

1	2	3	Total

SECTION II

4	5	6	7	8	9	10	11	Total	Grand Total

SECTION I (50 Marks)

Answer **all** questions in this section in the spaces provided.

1. The length of a rectangle is (3 mks)

8.3

cm

width is exactly

5.45

cm

the percentage error in its area, correct to four significant figures.

\text

and its

\text

. Calculate

2. Express $\sqrt[4]{5}$ (3 mks)

+3

$\sqrt{5}$

—

in the form

$a + b$

c

and b are improper fractions.

$\sqrt{2}$

$\sqrt{2}$

$\sqrt{2}$

where a

3. Make P the subject of the formula. (3 mks)

$$(4P+3)\sqrt{P+2} = Q(P+1)$$