

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 8.3cm and its width is exactly 5.45cm. Calculate the percentage error in its area, correct to four significant figures. (3 mks)

2. Express $\frac{4\sqrt{5} + 3\sqrt{2}}{\sqrt{5} - \sqrt{2}}$ in the form $a + b\sqrt{c}$ where a and b are improper fractions. in (3 mks)

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

$$\frac{4}{d} = \sqrt{\frac{R^2 - K}{P^2}}$$