

1.3 MATHEMATICS (121 and 122)

1.3.1 Mathematics Alt. A Paper 1 (121/1)

SECTION 1 (50 marks)

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

- 1** Without using a calculator, evaluate;

$$\frac{2\frac{1}{2} + \frac{2}{3} \text{ of } 3\frac{3}{4} - 4\frac{1}{6}}{1\frac{1}{4} - 2\frac{2}{3} \div 1\frac{1}{3} + 3\frac{3}{4}}$$

(3 marks)

- 2** The diagonal of a rectangular garden measures $11\frac{1}{4}$ m while its width measures $6\frac{3}{4}$ m. Calculate the perimeter of the garden.

(2 marks)

- 3** A motorist took 2 hours to travel from one town to another town and 1 hour 40 minutes to travel back. Calculate the percentage change in the speed of the motorist.

(3 marks)

- 4** A square room is covered by a number of whole rectangular slabs of sides 60 cm by 42 cm. Calculate the least possible area of the room in square metres.

(3 marks)

- 5** Given that $\sin (x + 60)^\circ = \cos (2x)^\circ$, find $\tan (x + 60)^\circ$.

(3 marks)

- 6** Simplify the expression:

$$\frac{4x - 9x^3}{3x^2 - 4x - 4}$$

(3 marks)

- 7** The external length, width and height of an open rectangular container are 41 cm, 21 cm and 15.5 cm respectively. The thickness of the material making the container is 5 mm. If the container has 8 litres of water, calculate the internal height above the water level.

(4 marks)

- 8** Factorise $2x^2y^2 - 5xy - 12$

(2 marks)

- 9** Using a ruler and a pair of compasses only:

- (a) construct a parallelogram PQRS in which PQ = 6 cm, QR = 4 cm and angle SPQ = 75° ;

(3 marks)

- (b) determine the perpendicular distance between PQ and SR.

(1 mark)

- 10** The masses of people during a clinic session were recorded as shown in the table below.

Mass (kg)	40-44	45-49	50-54	55-59	60-64	65-69	70-74
No. of people	1	2	12	10	2	2	1

Calculate the mean mass.

(3 marks)

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G Thomas



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Peak Revision K.C.S.E. Mathematics , **Kenya National Assembly Official Record (Hansard)** ,2002-07-25 The official records of the proceedings of the Legislative Council of the Colony and Protectorate of Kenya the House of Representatives of the Government of Kenya and the National Assembly of the Republic of Kenya **African Books in Print** ,1978

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Table of Contents Kcse Maths Paper 1 121

1. Understanding the eBook Kcse Maths Paper 1 121
 - The Rise of Digital Reading Kcse Maths Paper 1 121
 - Advantages of eBooks Over Traditional Books
2. Identifying Kcse Maths Paper 1 121
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Kcse Maths Paper 1 121
 - User-Friendly Interface
4. Exploring eBook Recommendations from Kcse Maths Paper 1 121
 - Personalized Recommendations
 - Kcse Maths Paper 1 121 User Reviews and Ratings
 - Kcse Maths Paper 1 121 and Bestseller Lists

5. Accessing Kcse Maths Paper 1 121 Free and Paid eBooks
 - Kcse Maths Paper 1 121 Public Domain eBooks
 - Kcse Maths Paper 1 121 eBook Subscription Services
 - Kcse Maths Paper 1 121 Budget-Friendly Options
6. Navigating Kcse Maths Paper 1 121 eBook Formats
 - ePub, PDF, MOBI, and More
 - Kcse Maths Paper 1 121 Compatibility with Devices
 - Kcse Maths Paper 1 121 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Kcse Maths Paper 1 121
 - Highlighting and Note-Taking Kcse Maths Paper 1 121
 - Interactive Elements Kcse Maths Paper 1 121
8. Staying Engaged with Kcse Maths Paper 1 121
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Kcse Maths Paper 1 121
9. Balancing eBooks and Physical Books Kcse Maths Paper 1 121
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Kcse Maths Paper 1 121
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Kcse Maths Paper 1 121
 - Setting Reading Goals Kcse Maths Paper 1 121
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Kcse Maths Paper 1 121
 - Fact-Checking eBook Content of Kcse Maths Paper 1 121
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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