

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 $11\frac{1}{2}$ 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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Table of Contents Kcse Maths Paper 121

1. Understanding the eBook Kcse Maths Paper 121
 - The Rise of Digital Reading Kcse Maths Paper 121
 - Advantages of eBooks Over Traditional Books
2. Identifying Kcse Maths Paper 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 121
 - User-Friendly Interface
4. Exploring eBook Recommendations from Kcse Maths Paper 121
 - Personalized Recommendations
 - Kcse Maths Paper 121 User Reviews and Ratings
 - Kcse Maths Paper 121 and Bestseller Lists
5. Accessing Kcse Maths Paper 121 Free and Paid eBooks
 - Kcse Maths Paper 121 Public Domain eBooks

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