#### 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.

Without using a calculator, evaluate;

$$\frac{2\frac{1}{5} + \frac{2}{3} \text{ of } 3\frac{3}{4} - 4\frac{1}{5}}{1\frac{1}{4} - 2\frac{2}{3} + 1\frac{1}{3} + 3\frac{3}{4}}$$

(3 marks)

- 2 The diagonal of a rectangular garden measures 11½ m while its width measures 6½m.
  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:

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

(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 compases 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.

(I 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 Mathematics Paper 1 November 201**

- 1. Understanding the eBook Kcse Mathematics Paper 1 November 201
  - The Rise of Digital Reading Kose Mathematics Paper 1 November 201
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Kcse Mathematics Paper 1 November 201
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - $\circ$  Features to Look for in an Kcse Mathematics Paper 1 November 201
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Kcse Mathematics Paper 1 November 201
  - Personalized Recommendations
  - Kcse Mathematics Paper 1 November 201 User Reviews and Ratings
  - Kcse Mathematics Paper 1 November 201 and Bestseller Lists
- 5. Accessing Kose Mathematics Paper 1 November 201 Free and Paid eBooks
  - Kcse Mathematics Paper 1 November 201 Public Domain eBooks
  - Kcse Mathematics Paper 1 November 201 eBook Subscription Services

- Kcse Mathematics Paper 1 November 201 Budget-Friendly Options
- 6. Navigating Kcse Mathematics Paper 1 November 201 eBook Formats
  - o ePub, PDF, MOBI, and More
  - Kcse Mathematics Paper 1 November 201 Compatibility with Devices
  - Kcse Mathematics Paper 1 November 201 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Kcse Mathematics Paper 1 November 201
  - Highlighting and Note-Taking Kcse Mathematics Paper 1 November 201
  - Interactive Elements Kcse Mathematics Paper 1 November 201
- 8. Staying Engaged with Kcse Mathematics Paper 1 November 201
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Kcse Mathematics Paper 1 November 201
- 9. Balancing eBooks and Physical Books Kcse Mathematics Paper 1 November 201
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Kcse Mathematics Paper 1 November 201
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Kcse Mathematics Paper 1 November 201
  - Setting Reading Goals Kcse Mathematics Paper 1 November 201
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Kcse Mathematics Paper 1 November 201
  - Fact-Checking eBook Content of Kcse Mathematics Paper 1 November 201
  - 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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