


**SECTION 1 (50 Marks)**

Answer all questions in this section in the spaces provided.

1. Evaluate

$$\frac{\frac{1}{4} + \frac{1}{5} - \frac{1}{2} \text{ of } \frac{1}{3}}{\frac{1}{2} \text{ of } \left( \frac{4}{5} + \frac{3}{4} + \frac{1}{3} \right)}$$

2. A straight line L1 is perpendicular to another line L2 whose equation is  $3y+4x=12$ . If the two lines meet at point P which lies on the x- axis, find :

- i) The co-ordinates of P. (1mark)  
 ii) The equation of L1 in the form  $y=mx+c$ . (2marks)

3. Use squares, square roots and reciprocal tables to evaluate to 4 significant figures, the expression

$$(0.0546)^{\frac{1}{2}} + \left( \frac{2}{43.27} \right)^2$$

4. Use the exchange rates below.

Buying Selling  
 UK £ 120.25 120.95  
 US dollar 80.00 80.20

A tourist arrived in Kenya with 4500 US dollars. He converted the dollars to Kenya shillings at the bank, while in Kenya he spent shs 200,000 and converted the balance to UK pounds through a broker who charged him a commission of 7.5%. Calculate, to the nearest pounds, the amount he received.

5. A point X divides line MN below externally in the ratio 7:3. By construction determine the position of point X.



6. Three girls A, B and C shared a packet of 108 sweets. B got twice as much as A while C got one and a half times as much as A. Find the number of sweets received by C.

7. Simplify:-

$$\frac{49x^2 - y^2}{7x^2 - xy + 21xy - 3y^2}$$

8. A bus left Mombasa for Nairobi, a distance of 500km. If the bus arrived at Nairobi at 6.35pm after a stop-over for 30 minutes at Mbita Andei, travelling at 75km/h. At what time had it left Mombasa.

9. Four bells ring at intervals of 15, 18, 20 and 24 seconds respectively. They ring together at 11:05hrs. How many times will they have rang together simultaneously by 1:30h?

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**Yan Bai**



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## **Table of Contents Jab 2013 2014 Kcse Cluster Manuals**

1. Understanding the eBook Jab 2013 2014 Kcse Cluster Manuals
  - The Rise of Digital Reading Jab 2013 2014 Kcse Cluster Manuals
  - Advantages of eBooks Over Traditional Books
2. Identifying Jab 2013 2014 Kcse Cluster Manuals
  - 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 Jab 2013 2014 Kcse Cluster Manuals
  - User-Friendly Interface

4. Exploring eBook Recommendations from Jab 2013 2014 Kcse Cluster Manuals
  - Personalized Recommendations
  - Jab 2013 2014 Kcse Cluster Manuals User Reviews and Ratings
  - Jab 2013 2014 Kcse Cluster Manuals and Bestseller Lists
5. Accessing Jab 2013 2014 Kcse Cluster Manuals Free and Paid eBooks
  - Jab 2013 2014 Kcse Cluster Manuals Public Domain eBooks
  - Jab 2013 2014 Kcse Cluster Manuals eBook Subscription Services
  - Jab 2013 2014 Kcse Cluster Manuals Budget-Friendly Options
6. Navigating Jab 2013 2014 Kcse Cluster Manuals eBook Formats
  - ePub, PDF, MOBI, and More
  - Jab 2013 2014 Kcse Cluster Manuals Compatibility with Devices
  - Jab 2013 2014 Kcse Cluster Manuals Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Jab 2013 2014 Kcse Cluster Manuals
  - Highlighting and Note-Taking Jab 2013 2014 Kcse Cluster Manuals
  - Interactive Elements Jab 2013 2014 Kcse Cluster Manuals
8. Staying Engaged with Jab 2013 2014 Kcse Cluster Manuals
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Jab 2013 2014 Kcse Cluster Manuals
9. Balancing eBooks and Physical Books Jab 2013 2014 Kcse Cluster Manuals
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Jab 2013 2014 Kcse Cluster Manuals
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Jab 2013 2014 Kcse Cluster Manuals
  - Setting Reading Goals Jab 2013 2014 Kcse Cluster Manuals
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Jab 2013 2014 Kcse Cluster Manuals
  - Fact-Checking eBook Content of Jab 2013 2014 Kcse Cluster Manuals
  - 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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