

**MATHEMATICS PAPER 1 K.C.S.E 1995 QUESTIONS**  
**SECTION 1 (52 MARKS)**

*Answer all the questions in this section*

1. Without using logarithms tables evaluate ( 3 marks)

$$\sqrt{\frac{384.16 \times 0.0625}{96.04}}$$

2. Simplify ( 3 marks)

$$\frac{2x-2}{6x^2-x-12} + \frac{x-1}{2x-3}$$

3. Every week the number of absentees in a school was recorded. This was done for 39 weeks these observations were tabulated as shown below

|                     |     |     |      |       |       |       |
|---------------------|-----|-----|------|-------|-------|-------|
| Number of absentees | 0-3 | 4-7 | 8-11 | 12-15 | 16-19 | 20-23 |
| (Number of weeks)   | 6   | 9   | 8    | 11    | 3     | 2     |

Estimate the median absentee rate per week in the school ( 2 marks)

4. Manyatta village is 74 km North West of Nyangata village. Chamwe village is 42 km west of Nyangata. By using an appropriate scale drawing, find the bearing of Chamwe from Manyatta ( 2 marks)

5. A perpendicular to the line  $-4x + 3 = 0$  passes through the point ( 8, 5) Determine its equation ( 2 marks)

6. The volume  $V\text{cm}^3$  of an object is given by

$$V = \frac{2}{3} \pi r^2 \left( \frac{1-2}{sc^2} \right)$$

Express in term of  $\pi$ ,  $r$ ,  $s$  and  $V$  ( 3 marks)

8. Two baskets A and B each contains a mixture of oranges and lemons. Basket A contains 26 oranges and 13 lemons. Basket B contains 18 oranges and 15 lemons. A child selected basket at random and picked at random a fruit from it. Determine the probability that the fruit picked was an orange.

9. A solid cone of height 12cm and radius 9 cm is recast into a solid sphere. Calculate the surface area of the sphere. ( 4 marks)

10. The first, the third and the seventh terms of an increasing arithmetic progression are three consecutive terms of a geometric progression. In the first term of the arithmetic progression is 10 find the common difference of the arithmetic progression. ( 4 marks)

11. Akinyi bought maize and beans from a wholesaler. She then mixed the maize and beans the ratio 4:3 she brought the maize at Kshs. 12 per kg and the beans 4 per kg. If she was to make a profit of

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