

MATHS FORM 2; INEQUALITIES

KCSE QUICK REVISION

*Compilation of Possible Questions in Mathematics Likely to be examined in
KCSE.*

*A Special Analysis of Prediction Questions that may be Tested in KCSE from this
Topic in Form 2.*

MATHEMATICS

SERIES 1

For Marking Schemes

Mr Isaboke 0746 222 000 / 0742 999 000

MWALIMU CONSULTANCY

INEQUALITIES

1. Find the range of x if $2 \leq 3 - x < 5$

2. Find all the integral values of x which satisfy the inequalities:

$$2(2-x) < 4x - 9 < x + 11$$

2. Solve the inequality and show the solution

$$3 - 2x \geq x \leq \frac{2x + 5}{3} \text{ on the number line}$$

3

4. Solve the inequality $\frac{x-3}{4} + \frac{x-5}{6} \leq \frac{4x+6}{8} - 1$

4 6 8

5. A family is planning a touring holiday, during which time (x days) will be spent walking and the rest of the time (y days) in traveling by bus. Each day they can walk 30 km or travel 80 km by bus and they wish to travel at least 600 km altogether.

The holiday must not last more than 14 days. Each day walking will cost Kshs. 200 and each day traveling by bus will cost Kshs. 1400. The holiday must not cost more than Kshs 9800

(a) Write down all the inequalities in x and y based on the above facts

(b) Represent the inequalities graphically

(c) Use the graph to determine the integral values of x and y which give

(i) The cheapest holiday

(ii) The longest distance traveled

For Marking Schemes/Answers

Contact Mr Isaboke

0746-222-000

OR

0742-999-000

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- ✓ **TOP SCHOOLS PREMOCKS**
- ✓ **JOINT PREMOCKS**
- ✓ **KCSE MOCKS**
- ✓ **TOP SCHOOLS MOCKS**
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CALL/TEXT/WHATSAPP

0746 222 000 / 0742 999 000

mwalimuconsultancy@gmail.com

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MR ISABOKE***