ALGEBRAIC EXPRESSIONS

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 1.

MATHEMATICS

SERIES 1

For Marking Schemes

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MWALIMU CONSULTANCY

ALGEBRAIC EXPRESSIONS

1. Given that $y = \frac{2x - z}{x + 3z}$ express x in terms of y and z

2. Simplify the expression

$\frac{x - 1}{x} - \frac{2x + 1}{3x}$

Hence solve the equation

$\frac{x - 1}{x} - \frac{2x + 1}{3x} = \frac{2}{3}$

3. Factorize $a^2 - b^2$

Hence find the exact value of $2557^2 - 2547^2$

4. Simplify $\frac{p^2 - 2pq + q^2}{P^3 - pq^2 + p^2 q - q^3}$

5. Given that $y = 2x - z$, express x in terms of y and z.

Four farmers took their goats to a market. Mohammed had two more goats as Koech had 3 times as many goats as Mohammed, whereas Odupoy had 10 goats less than both Mohammed and Koech.

(i) Write a simplified algebraic expression with one variable, representing the total number of goats.

(ii) Three butchers bought all the goats and shared them equally. If each butcher got 17 goats, how many did odupoy sell to the butchers?

6. Factorize completely $3x^2 - 2xy - y^2$

7. Solve the equation

$\frac{1}{4x} = \frac{5}{6x} - 7$

8. Simplify

$\frac{a}{2(a+b)} + \frac{b}{2(a-b)}$

9. Factorize completely $28x^2 + 3x - 1$

10. Three years ago, Juma was three times as old. As Ali in two years time, the sum of their ages will be 62. Determine their ages

11. Two pairs of trousers and three shirts cost a total of Kshs. Five such pairs of trousers and two shirt cost a total of Kshs 810. Find the price of a pair of trouser and shirt.

For Marking Schemes/Answers

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