MATHS FORM 1; NUMBERS

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

NUMBERS

1. Mogaka and Onduso together can do a piece of work in 6 days. Mogaka, working alone, takes 5 days longer than Onduso. How many days does it take Onduso to do the same work alone?

2. (a) Evaluate

$$\frac{-8 \div 2 + 12 \times 9 - 4 \times 6}{56 \div 7 \times 2}$$

(b) Simplify the expression

$5a - 4b - 2(a-(`2b+c)$

3. Evaluate

$$\frac{28-(-18)}{-2} - \frac{15-(-2)(-6)}{3}$$

4. Three people Odawa, Mliwa and Amina contributed money to purchase a flour mill. Odawa contributed $^1/_3$ of the total amount, Mliwa contributed $^3/_8$ of the remaining amount and Amina contributed the rest of the money. The difference in contribution between Mliwa and Amina was Kshs 40000. Calculate the price of the flour mill.

5. Evaluate:

$$\frac{-12 \div (-3) \times 4 - (-20)}{-6 \times 6 \div 3 + (-6)}$$

6. Without using logarithm tables or a calculator evaluate.

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

7. Evaluate without using mathematical table

$$1000 \quad \frac{0.0128}{200}$$

8. Express the numbers 1470 and 7056, each as a product of its prime factors.
Hence evaluate: $\frac{1470^2}{7056}$

Leaving the answer in prime factor form

9. Evaluate:

$$\frac{\frac{3}{4} + 1\frac{5}{7} \div \frac{4}{7} \text{ of } 2\frac{1}{3}}{(1\frac{3}{7} - \frac{5}{8}) \times \frac{2}{3}}$$

10. Pipes A can fill an empty water tank in 3 hours while pipe B can fill the same tank in 6 hours. When the tank is full it can be emptied by pipe C in 8 hours. Pipe A and B are opened at the same time when the tank is empty. If one hour later, pipe C is also opened, find the total time taken to fill the tank.

11. In a fund- raising committee of 45 people the ratio of men to women 7.2. Find the number of women required to join the existing committee so that the ratio of men to women is changes to 5:4

12. Without using mathematical tables or calculators, evaluate

$$3\ \frac{675 \times 135}{2025}$$

13. All prime numbers less than ten are arranged in descending order to form a number

(a) Write down the number formed

(b) What is the total value of the second digit?

14. Evaluate without using mathematical tables or a calculator $\frac{0.0084 \times 1.23 \times 3.5}{2.87 \times 0.056}$

Expressing the answer as a fraction in its simplest form.

15. Evaluate $\frac{1}{3}$ of $(2\frac{3}{4} - 5\frac{1}{2}) \times 3\frac{6}{7} \div \frac{9}{4}$

16. Evaluate without using mathematical tables or the calculator

$\frac{(0.0625 \times 2.56)}{0.25 \times 0.08 \times 0.5}$

17. Evaluate without using mathematical tables or the calculator

$\frac{1.9 \times 0.032}{20 \times 0.0038}$

18. Evaluate $\frac{2\frac{3}{4} \times \frac{8}{33}}{3 + (5\frac{2}{5} \div \frac{9}{25})}$

19. Without using tables or calculators evaluate

$$\frac{153 \times 0.18}{0.68 \times 0.32}$$

20. Without using mathematical tables, evaluate

$$1.2 \times \frac{0.0324}{0.0072}$$

21. Simplify $\frac{2}{3}$ of $12 - (1\frac{1}{3} + 1\frac{1}{4})$

22. If $x = 2$, Find the value of $x^3 - 5x^2 - 4x + 3$

23. If X = ½ y= ¼ and z = $^{2}/_{3}$ Find the value of

$\frac{x + yz}{y - xz}$

24. Find a and b if $3.168 = 3^{a}/_{b}$

25. Find the greatest common factor of $x^8 y^2$ and $4xy^4$. Hence factorize completely the expression $x^3y^2 - 4xy^4$

26. A hot water tap can fill a bath in 5 minutes while a cold water tap can fill the same bath in 3 minutes. The drain pipe can empty the full bath in 3 ¾ minutes. The two taps and the drain pipe are fully open for 1 ½ minutes after which the drain pipe are fully open for 1 ½ minutes after which the drain pipe is closed. How much will take it take to fill the bath?

27. A farmer distributed his cabbages as follows
A certain hospital received a quarter of the total number of bags. A nearby school received half of the remainder. A green grocer received a third of what the school received. What remained were six bags more than what the green grocer received. How many bags of cabbages did the farmer have?

For Marking Schemes/Answers

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