

FOCUS A365

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Form 1	Term 1	121 A - Mathematics	26-Okt-17	Weekly Ambush
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ADM: NAME: CLASS.....

Section A: Answer all questions in this section

1. Without using a mathematical table or a calculator, evaluate leaving your answer in fraction form.

$$\frac{2.7 \times 2.04}{300 \times 0.054}$$

3 mks

2. The GCD of two numbers is 36 and their LCM is 1250. If one of the numbers is 252, find the other number. 2 mks
3. Four machines give out signals at intervals of 24, 27, 30 and 50 seconds respectively. At 5.00 pm all the four machines give out a signal simultaneously. Find the time this will happen again. 3 mks
4. A farmer has a piece of land measuring 840m by 936 m. He divides it into square plots of equal size. Find the maximum area of one plot. 3 mks
5. A number n is such that when it's divided by 3,7,11 or 13 the remainder is always one. Find the number n. 2 mks
6. Evaluate: 4mks

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

7. Evaluate: 4 mks

$$\frac{\frac{4}{11} \text{ of } \frac{3}{4} - \frac{1}{20}}{3 + \frac{1}{3} \div 1 + \frac{1}{10}}$$

8. Without using tables, evaluate: 3 mks

$$\frac{0.51 \times 5700}{6.8 \times 0.0095}$$

9. A man spent $\frac{1}{9}$ of his salary on feed and $\frac{1}{4}$ of the remainder on electricity and water bills. He paid fees with 20% of his salary and 16% of what was left on business. After taking a game drive on which he spent Ksh.2000, he saved Ksh.5350. Calculate his total monthly earning. 4 mks
10. Find the greatest number which when divided by 77 or 101 or 305 leave a remainder of 5 in each case. 5 mks

11. All prime numbers between one and 10 are arranged in descending order to form a number.
- Write down the number. 1 mk
 - State the total value of the third digit in the number formed in (a) above

Section B: Attempt any three questions in this section on the spaces provided. 15 Marks

- 12.
- Given that $1.05 = \frac{a}{b}$, find the values of a and b . 2 mks
 - Evaluate: $0.6 \div 0.73$ 3 mks
13. Evaluate (using the positive root of $\frac{1}{4}$ only) 5 mks

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

14. Evaluate: 5 mks

$$\frac{\frac{2}{3} - 1\frac{1}{4} + \frac{5}{6}}{\frac{2}{7} + 3\frac{1}{5} \text{ of } \frac{7}{8} \div \frac{6}{11} \times 5\frac{1}{3} + \frac{9}{10}}$$

15. Square paving stones are used to cover an area measuring 16.5m by 12.75 m. If the stones are all alike and only whole ones are used, finds;
- The greatest size of the stones used. 5 mks
 - The number of paving stones used. 2 mks