

FORM 1 MATHEMATICS
APRIL HOLIDAY ASSIGNMENT - 2024

Instructions (Attempt all the questions)

1. Evaluate (3mks)

$$\frac{5 \times 6 - 76 \div 4 + 27 \div 3}{4 - 2 \times 4 + 36 \div 4}$$

2. Three-fifths of work is done on the first day. On the second day, $\frac{3}{4}$ of the remainder is completed. If third day $\frac{7}{8}$ of what remained is done, what fraction of work remains to be done? (3mks)

3. A large scale farmer uses $\frac{1}{2}$ of his land to plant maize, $\frac{1}{5}$ for planting beans, $\frac{1}{3}$ of the remainder for grazing and the rest for horticultural farming. If he use 10 hectares for grazing, determine how much land he uses for horticultural farming. (4mks)

4. Work out the following (4mks)

a) $(-4) + (-16) - (-20) + 4$

b) $25 \times -5 + 16 - 24 \div 2 + 5$

5. Find the smallest number which leaves a remainder of 4 when divided by either 8 or 12 or 14. (2marks)

6. The L.C.M of two numbers is 180 and their GCD is 12. If the no numbers are 36 and Y, Find the value of y. (2marks)

7. Three sirens wail at intervals of thirty minutes, fifty minutes and thirty-five minutes. If they wail together at 7.18 a.m. on Monday, what time and day they will wail together again? (3 marks)

8. A farmer has four containers of capacity 240 litres, 360 litres, 600 litres and 700 litres. Find the capacity of:

a) The smallest container that can be filled by each one of them an exact number of times (3marks)

b) The largest container that can be used to fill each one of them an exact number of times (3marks)

c) A tank K is such that when it is filled by any of the containers above, there is always a deficit of 17 litres for the tank to be full. Find the smallest possible capacity of the tank (2marks)

d) Express the answer (c) above in standard form (2marks)

9. Find the squares of the following using mathematical tables.

I. 2594 (2mks)

II. 0.005643 (2mks)

By mhesbon

10. Find the square roots of the following numbers using mathematical tables.

- I. 5974 (2mks)
- II. 0.0000602 (2mks)

