

THE PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT
UKEREWE DISTRICT COUNCIL



FORM ONE EXAMINATION
BASIC MATHEMATICS

CODE: 041

TIME: 2:30 hrs.

2025

Instructions

- ❖ Answer All questions from each section
- ❖ Write your index number on every page of your answer sheet (booklet)

1. (a) Round off to the
 - (i) Nearest hundredth
 - (ii) Two decimal place
 - (iii) Ones(b) Identify the numbers which are both prime and odd numbers from 21,23,25,27,29,31,33,35 and 37
(c) give two example of Transdentals Numbers
 2. (a) Rearrange the following fraction into ascending order $\frac{5}{6}, \frac{3}{4}, \frac{1}{2}, \frac{2}{3}$
(b) If $x = 0.2\dot{3}$ and $b = 2.\dot{1}\dot{3}$ find value of $x + b$
 3. (a) The sum of two consecutive whole numbers is 97. What are two numbers?
(b) Round off
 - i 9.67 to whole number
 - ii 0.265 to one decimal place
 - iii 0.0197 to one significant figure
- Hence use the result obtained from above to estimate value of $\frac{9.67 \times 0.265}{0.0197}$
4. (a) Azam biscuits factory packs biscuits in packets of 12 ,36 and 50 biscuits each .Identify the smallest number of biscuits that the factory packs in any of these quantities without any biscuits left over
(b) compute the difference between the products of -20 and -10 and the sum of -20 and -10.

5. (a) convert $\frac{4}{5}$ into percentage
 (b) convert $\frac{3}{4}$ into decimals
 (c) convert $0.\dot{3}$ into fraction
 (d) convert $\frac{3}{5}\%$ into fraction
 (e) convert 0.75 into fraction in its simplest form

6. (a) Given that the sum of interior angle of triangle are in ratio of 3:4:5 find
 - (i) The smallest angle
 - (ii) The difference between large and smallest angle
 (b) (i) solve the equation $5x - 4(3-x) = 15$
 (ii) Represent on the number line inequality $-2 < x \leq 3$

7. The gradient of line passes through points (1, 2) and (x , -2) is - 4. Find
 - (a) The value of X
 - (b) Equation of straight line in form of (i) $Y = mx + c$ (ii) $ax + by + c = 0$
 - (c) Y – Intercept
 - (d) X- Intercept

8. (a) simplify $12mn \div 3 - 3nm$
 (b) Evaluate $b^2 = 3ab$ when $a = 3$ and $b = -2$
 (c) solve

$$\begin{cases} \frac{x}{4} - \frac{y}{3} = 0 \\ \frac{x}{2} - \frac{y}{2} = 1 \end{cases}$$

9. (a) Explain three branches mathematics
 (b) Explain three importance of mathematics
 (c) State any four categories of Numbers

10. Draw the diagram of xy-plane and then explain explain its four parts