THE UNITED REPUBLIC OF TANZANIA

THE NATIONAL EXAMINATIONAL COUNCIL OF TANZANIA

STANDARD FOUR NATIONAL ASSESSMENT

04E **MATHEMATICS**

Time: 1:30 Hours **SOLUTIONS** **Year: 2022**

Instructions

1. This paper consists of **five (5)** questions.
2. Answer **all** questions

In questions 1 to 5, calculate the given question and then write the correct answer in the space provided.

1. (a) Ana was given an orange and ate 1/4 of it. What fraction remained?
   The whole orange = 1
   The part eaten = 1/4
   The part remaining = 1 − 1/4
   The part remaining = 3/4

   (b) Write 99,001 in words.
   99,001 = ninety-nine thousand and one

   (c) The value of the numeral X in the number XVIII is
   XVIII = 10 + 5 + 3
   X = 10
   The value of X is 10

   (d) Write in Roman numerals the number between 48 and 50.
   48 = XLVIII
   49 = XLIX
   50 = L
   The number between 48 and 50 is 49
   49 in Roman numerals = XLIX

   (e) Which number must be added to 4,392 to obtain 7,005?
   7,005 − 4,392 = 2,613
   The number is 2,613

2. (a) One step of a tortoise is 5 cm. How many steps will it take to cover 30 cm?
   Length of one step = 5 cm
   Total distance = 30 cm
   Number of steps = 30 ÷ 5 = 6
   It will take 6 steps

   (b) Juliasi has five children whose ages differ by 5 years each. If the first child is 35 years old, how old is the fourth child?
   Child 1 = 35
   Child 2 = 35 − 5 = 30

Child 3 = 30 − 5 = 25
Child 4 = 25 − 5 = 20
The fourth child is 20 years old

(c) Four countries attained independence in the following years: Kenya 1962, Tanganyika 1961, Uganda 1963, and Zimbabwe 1980. Which country attained independence first?
Tanganyika = 1961
Kenya = 1962
Uganda = 1963
Zimbabwe = 1980
The earliest year is 1961
The country is Tanganyika

(d) Gladness's monthly test results increased by 12 marks each month. If in the first month she scored 186 marks, how many marks did she score in the fourth month?
Month 1 = 186
Month 2 = 186 + 12 = 198
Month 3 = 198 + 12 = 210
Month 4 = 210 + 12 = 222
She scored 222 marks

(e) Mji Mpya Primary School elects its leaders every 2 years. If the last election was held in 2018, in which year will the next election be held?
2018 + 2 = 2020
It will be held in 2020

3. (a) Find the difference between 39,365 and 33,868.
39,365 − 33,868 = 5,497
The difference is 5,497

(b) Aisha divided 350 mangoes into 10 equal groups. How many mangoes are in each group?
350 ÷ 10 = 35
Each group has 35 mangoes

(c) Baraka is paid 4,000 shillings per day. If he works for 40 days, how much money will he receive in total?

$4000 \times 40 = 160{,}000$
He will be paid 160,000 shillings

(d) Joel sold a radio for 60,500 shillings. If he made a profit of 20,000 shillings, how much did he buy the radio for?
Selling price = 60,500
Profit = 20,000
Buying price = $60{,}500 - 20{,}000$
Buying price = 40,500 shillings

(e) A hen incubates eggs for 21 days. How many weeks is this period?
1 week = 7 days
$21 \div 7 = 3$
It is 3 weeks

4. (a) Arrange the following measurements from the largest to the smallest: 900 m, 2 cm, 3 km, and 400 mm.
3 km = 3000 m
900 m = 900 m
400 mm = 0.4 m
2 cm = 0.02 m
Order from largest to smallest is: 3 km, 900 m, 400 mm, 2 cm

(b) Which is shorter between a wire of 20 centimetres and a thread of 2 metres?
2 metres = 200 centimetres
20 centimetres < 200 centimetres
The shorter one is the wire of 20 centimetres

(c) How many line segments are there in the following line?
Points W, X, Y, and Z divide the line into segments.
The segments are WX, XY, YZ, and the two end segments.
Total number of segments = 5

(d) Find the perimeter of the following triangle.
First side = 13 cm
Second side = 14 cm
Third side = 15 cm

Perimeter = 13 + 14 + 15
Perimeter = 42 cm

(e) The perimeter of a square is 196 cm. Find the length of one side.
Perimeter of a square = 4 × side
196 ÷ 4 = 49
Length of one side = 49 cm

5. The following table shows the number of pupils who completed Standard Seven at Muungano Primary School over four years:
2014 = 80
2015 = 90
2016 = 95
2017 = 98

(a) In which year did the highest number of pupils complete Standard Seven?
The highest number is 98
The year is 2017

(b) How many pupils in total completed Standard Seven in 2014 and 2015?
2014 + 2015 = 80 + 90
Total = 170 pupils

(c) In which year did the fewest pupils complete Standard Seven?
The smallest number is 80
The year is 2014

(d) Find the difference in the number of pupils who completed in 2014 and 2017.
2017 − 2014 = 98 − 80
The difference = 18 pupils

(e) How many pupils in total completed school during the four years?
80 + 90 + 95 + 98
= 170 + 95 + 98
= 265 + 98
= 363 pupils