THE UNITED REPUBLIC OF TANZANIA

THE NATIONAL EXAMINATIONAL COUNCIL OF TANZANIA

STANDARD FOUR NATIONAL ASSESSMENT

04E **MATHEMATICS**

Time: 1:30 Hours **SOLUTIONS** **Year: 2015**

Instructions

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

1. (a) Write the number 20,392 in words.
   20,392 = twenty thousand three hundred and ninety two.

   (b) Write XXXIV in Arabic numbers.
   XXX = 30
   IV = 4
   30 + 4 = 34

   (c) Write the place of value of the underlined digit of the number 3402.
   Number = 3402
   Underlined digit = 4
   Place value of 4 = hundreds
   Value = 400

   (d) Write the following number in expanded form: 9536.
   9536 = 9000 + 500 + 30 + 6

   (e) The pupils planted 680 trees so as to conserve the school environment. Write the number of planted trees in words.
   680 = six hundred and eighty trees.

2. (a) Write the next number in the following sequence of numbers: 1, 3, 5, 7, ___.
   Sequence increases by 2
   7 + 2 = 9

   (b) Arrange the following numbers starting from the smallest to the largest: 20, 4, 12, 7, 16, 3, 10.
   Smallest to largest = 3, 4, 7, 10, 12, 16, 20

   (c) Write the missing number to complete the following sequence of Roman numbers: XXII, XXV, XXVIII, ___, XXXIV.
   XXII = 22
   XXV = 25
   XXVIII = 28
   Increase = 3
   28 + 3 = 31
   31 in Roman numbers = XXXI

(d) Write the missing number in the following sequence: 36, 33, 30, ___, 24.
36 − 3 = 33
33 − 3 = 30
30 − 3 = 27
27 − 3 = 24
Missing number = 27

(e) The frog jumped three steps with the same length until it reached 21 m. If it jumped the fourth step of the same length as the previous steps, at what distance will it end up?
3 steps = 21 m
1 step = 21 ÷ 3 = 7 m
4 steps = 7 × 4 = 28 m

3. (a) Add; 1715 + 263 =
1715 + 263
= 1978

(b) Divide; 20) 600
600 ÷ 20 = 30

(c) Mkombozi Primary School has 826 pupils. If the number of boys is 408, how many girls are there?
Total pupils = 826
Boys = 408
Girls = 826 − 408 = 418

(d) Multiply; 49 × 53 =
49 × 50 = 2450
49 × 3 = 147
2450 + 147 = 2597

(e) Kijo had 9,750 shillings. He gave his friend some money and remained with 3,250 shillings. How much money did he give his friend?
Money before = 9750
Money remained = 3250
Money given = 9750 − 3250 = 6500 shillings

4. (a) Write the name of the following figure which has equal length in all of its four sides.
   The figure is a square.

   (b) The parts shown in the following figure have the same size. Write the fraction of the shaded part.
   Shaded parts = 2
   Total equal parts = 4
   Fraction shaded = 2/4 = 1/2

   (c) Find the perimeter of the following figure.
   Each side = 7 cm
   Perimeter = 7 + 7 + 7 + 7 = 28 cm

   (d) The perimeter of the triangle is 48 cm. If the length of the first side is 12 cm and the length of the second side is 20 cm, find the length of the third side.
   Perimeter = 48
   Known sides = 12 + 20 = 32
   Third side = 48 − 32 = 16 cm

   (e) The rectangle has the perimeter of 80 cm and the length of 25 cm. Find its width.
   Perimeter = 2(length + width)
   80 = 2(25 + width)
   80 ÷ 2 = 25 + width
   40 = 25 + width
   Width = 15 cm

5. (a) Add; shs. 1940 + shs. 265 =
   1940 + 265 = 2205 shillings

   (b) Subtract; shs. 3150 − shs. 1500 =
   3150 − 1500 = 1650 shillings

   (c) Multiply;
   300
   × 25
   300 × 25 = 7500 shillings

(d) Mariamu had shs. 8,650 in her pocket. Later on, she spent shs. 3,800. How much money did she remain with?
8650 − 3800 = 4850 shillings

(e) How many 1,000 shilling notes are there in 10,000 Tanzanian shilling note?
10,000 ÷ 1,000 = 10 notes