

THE UNITED REPUBLIC OF TANZANIA
THE NATIONAL EXAMINATIONAL COUNCIL OF TANZANIA
STANDARD FOUR NATIONAL ASSESSMENT

04E

MATHEMATICS

Time: 1:30 Hours

SOLUTIONS

Year: 2019

Instructions

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

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1. (a) Write the thousands, hundreds, tens, and ones digits of the number 10,529 in words.

The number is 10,529.

Thousands = 10,000 = ten thousand.

Hundreds = 500 = five hundred.

Tens = 20 = twenty.

Ones = 9 = nine.

In words, 10,529 is ten thousand five hundred and twenty-nine.

- (b) Write 49 in Roman numerals.

$49 = 40 + 9$.

$40 = XL$.

$9 = IX$.

$49 = XLIX$.

- (c) Which digit in the number 78,421 is in the ten-thousands place?

The number is 78,421.

The ten-thousands place is the second position from the left.

The digit in that place is 7.

- (d) Write the following number in short form: $8000 + 400 + 60 + 3$.

$8000 + 400 = 8400$.

$8400 + 60 = 8460$.

$8460 + 3 = 8463$.

- (e) A book has three hundred and eight pages. Write the number of pages of this book in numerals.

Three hundred = 300.

Eight = 8.

$300 + 8 = 308$.

2. (a) Write the next number in the following sequence: 4, 6, 8, 10.

The sequence increases by 2.

The next number = 12.

- (b) Arrange the following numbers in ascending order, from the smallest to the largest:

9, 3, 11, 5, 7, 13.

The correct order is 3, 5, 7, 9, 11, 13.

(c) Write the missing numbers in the following Roman numeral sequence: X, XV, XX, __, XXX, __.

X = 10.

XV = 15.

XX = 20.

The increase is 5.

The next number is XXV.

After XXX = 30, the next number is XXXV.

(d) Fill in the missing number in the following sequence: 461, 361, 261, __, 61.

$461 - 100 = 361$.

$361 - 100 = 261$.

$261 - 100 = 161$.

$161 - 100 = 61$.

The missing number = 161.

(e) A trader sold 64 oranges, 42 pawpaws, 100 mangoes, and 98 bananas. Arrange these products according to their quantities from the largest to the smallest.

Mangoes = 100.

Bananas = 98.

Oranges = 64.

Pawpaws = 42.

The order is mangoes, bananas, oranges, pawpaws.

3. (a) Add; $1,564 + 315 =$

$1564 + 315 = 1879$.

(b) Divide; $15 \) \ 900$.

$900 \div 15 = 60$.

(c) A book has 91 pages. If each page has 13 pictures, find the total number of pictures in the book.

Pictures per page = 13.

Pages = 91.

Total pictures = $91 \times 13 = 1183$.

(d) Multiply; $72 \times 58 =$

$72 \times 58 = (72 \times 50) + (72 \times 8)$.

$$72 \times 50 = 3600.$$

$$72 \times 8 = 576.$$

$$3600 + 576 = 4176.$$

(e) The number of zebras in a certain wildlife reserve in Tanzania was 3,211. If the number increased by 195 the following year, find the total number of zebras in that reserve.

$$\text{Initial zebras} = 3211.$$

$$\text{Increase} = 195.$$

$$\text{Total} = 3211 + 195 = 3406.$$

4. (a) Write the name of the following line.

The line has point p on one side and point q on the other side, with arrows at both ends.

The name of the line is line pq.

(b) Which part of the following shape is shaded?

The shape is divided into 8 equal parts.

The shaded parts are 3.

The shaded part is 3 out of 8, that is $\frac{3}{8}$.

(c) Find the perimeter of the following shape.

$$\text{Length} = 12 \text{ cm.}$$

$$\text{Width} = 5 \text{ cm.}$$

$$\text{Perimeter of a rectangle} = 2(\text{length} + \text{width}).$$

$$\text{Perimeter} = 2(12 + 5).$$

$$\text{Perimeter} = 2 \times 17 = 34 \text{ cm.}$$

(d) Jamila's garden is triangular in shape. The first side is 10 m long, the second is 25 m, and the third is 18 m. Find the perimeter of the garden.

$$\text{Perimeter} = 10 + 25 + 18.$$

$$\text{Perimeter} = 53 \text{ m.}$$

(e) The perimeter of a rectangle is 42 cm. If its length is 12 cm, find the width of the rectangle.

$$\text{Perimeter} = 2(\text{length} + \text{width}).$$

$$42 = 2(12 + \text{width}).$$

$$42 \div 2 = 12 + \text{width}.$$

$$21 = 12 + \text{width.}$$

$$\text{Width} = 21 - 12 = 9 \text{ cm.}$$

5. (a) Add; Sh. 2,570 + Sh. 1,650 =
 $2570 + 1650 = 4220$ shillings.

(b) Subtract; Sh. 2,780 – Sh. 1,890 =
 $2780 - 1890 = 890$ shillings.

(c) Multiply;

$$\begin{array}{r} 200 \\ \times 25 \\ \hline \end{array}$$

$200 \times 25 = 5000.$