

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

04E

MATHEMATICS

Time: 1:30 Hours

SOLUTIONS

Year: 2021

Instructions

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

maktaba.tetea.org



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

1. (a) Write the value of the digit in the fourth place from right to left in the number 49,051.

The number is 49,051.

From the right: 1 is the first place, 5 the second, 0 the third, 9 the fourth.

The value of the digit 9 is 9,000.

- (b) Write 32 in Roman numerals.

$$32 = 30 + 2$$

$$30 = XXX$$

$$2 = II$$

$$32 = XXXII.$$

- (c) Write the number 76,502 in words.

76,502 = seventy-six thousand five hundred and two.

- (d) Write the following number in standard form: $2000 + 900 + 70 + 5$.

$$2000 + 900 = 2900$$

$$2900 + 70 = 2970$$

$$2970 + 5 = 2975.$$

- (e) Write the number 435 in words.

435 = four hundred and thirty-five.

2. (a) Fill in the missing number in the following number sequence: 50, 40, 30, __, 10.

$$50 - 10 = 40$$

$$40 - 10 = 30$$

$$30 - 10 = 20$$

$$20 - 10 = 10$$

The missing number is 20.

- (b) Arrange the following numbers from largest to smallest: 23, 64, 32, 46, 29, 38, 54.

The correct order is 64, 54, 46, 38, 32, 29, 23.

- (c) Write the next Roman numeral in the following sequence: V, XVI, XXVI, XXXVII, __.

$$V = 5$$

$$\text{XVI} = 16$$

$$\text{XXVI} = 26$$

$$\text{XXXVII} = 37$$

The increase is 11.

$$37 + 11 = 48$$

48 in Roman numerals is XLVIII.

(d) The heights of Mirisho, Samuel, Zaha, and Rose increase by 12 cm in sequence. Mirisho is 112 cm tall, Samuel is 124 cm, and Zaha is 136 cm. If Rose is the tallest, what is her height?

$$112 + 12 = 124$$

$$124 + 12 = 136$$

$$136 + 12 = 148$$

Rose's height is 148 cm.

(e) Kadeu thought of a number. He obtained the next number by adding 5 to the previous one. If the first number in the sequence is 20, what will the fifth number be?

$$\text{Number 1} = 20$$

$$\text{Number 2} = 20 + 5 = 25$$

$$\text{Number 3} = 25 + 5 = 30$$

$$\text{Number 4} = 30 + 5 = 35$$

$$\text{Number 5} = 35 + 5 = 40.$$

3. (a) Add:

Hours Minutes

$$14 \quad 30$$

$$+ 8 \quad 40$$

Minutes: $30 + 40 = 70$ minutes = 1 hour 10 minutes

Hours: $14 + 8 + 1 = 23$

Total = 23 hours 10 minutes.

(b) Azimo Primary School has 340 boys and 318 girls. What is the total number of pupils?

$$\text{Boys} = 340$$

$$\text{Girls} = 318$$

$$\text{Total} = 340 + 318 = 658 \text{ pupils.}$$

4. (c) Subtract:

	Hours	Minutes
	6	45
–	4	50

45 minutes cannot subtract 50, so borrow 1 hour = 60 minutes.

Minutes: $105 - 50 = 55$

Hours: $5 - 4 = 1$

Answer = 1 hour 55 minutes.

(d) Bahati walked from home to the market for two hours. How many minutes is this?

1 hour = 60 minutes

$2 \times 60 = 120$ minutes.

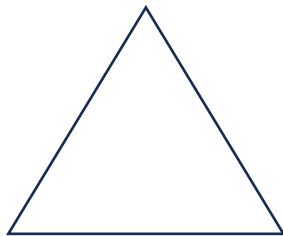
(e) Ronald played football for 40 minutes in a 90-minute match. How many minutes did he not play?

Total minutes = 90

Minutes played = 40

$90 - 40 = 50$ minutes.

5. (a) Draw an equilateral triangle.



(b) Find the perimeter of the following shape:

Length = 8 cm

Width = 5 cm

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

Perimeter = $2(8 + 5)$

Perimeter = $2 \times 13 = 26$ cm.

(c) The perimeter of a triangle is 57 cm. If all sides are equal, find the length of one side.

$57 \div 3 = 19$ cm.

(d) Find the perimeter of the following square:

Side = 6 cm

Perimeter of a square = 4×6

Perimeter = 24 cm.

(e) The perimeter of a triangle is 45 cm. If one side is 12 cm and the second side is 15 cm, find the length of the third side.

Perimeter = 45

Side 1 = 12

Side 2 = 15

Side 3 = $45 - (12 + 15)$

Side 3 = $45 - 27 = 18$ cm.