

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

**04E**

**MATHEMATICS**

**Time: 1:30 Hours**

**SOLUTIONS**

**Year: 2024**

---

**Instructions**

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

maktaba.tetea.org



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

1. (a)

78

+ 11

$$78 + 11 = 89$$

(b)

746

+ 437

$$746 + 437 = 1183$$

(c) Write the following number in short form:  $300 + 60 + 5 =$

$$300 + 60 = 360$$

$$360 + 5 = 365$$

(d) Write 345 in words.

345 = three hundred and forty-five

(e) Write XXV in Arabic numerals.

$$XX = 20$$

$$V = 5$$

$$20 + 5 = 25$$

2. (a) Write the next number in the following sequence: 1, 3, 5, 7, \_\_\_.

The sequence increases by 2

$$7 + 2 = 9$$

(b) Arrange the following numbers from the smallest to the largest: 23, 12, 34, 21, 32, 43, 18.

Correct order = 12, 18, 21, 23, 32, 34, 43

(c) Write the missing number in the following Roman numeral sequence: XII, XIV, XVI, \_\_, XX.

$$XII = 12$$

$$XIV = 14$$

$$\text{XVI} = 16$$

$$\text{Increase} = 2$$

$$\text{The next number} = \text{XVIII}$$

(d) Fill in the missing number in the following sequence: 998, 999, 1000, \_\_\_.

$$998 + 1 = 999$$

$$999 + 1 = 1000$$

$$1000 + 1 = 1001$$

The missing number is 1001

(e) Nguvumali village harvested maize for 5 years. Each year the harvest increased by 50 bags. If in the first year they harvested 300 bags, how many bags were harvested in the fifth year?

$$\text{Year 1} = 300$$

$$\text{Year 2} = 300 + 50 = 350$$

$$\text{Year 3} = 350 + 50 = 400$$

$$\text{Year 4} = 400 + 50 = 450$$

$$\text{Year 5} = 450 + 50 = 500$$

They harvested 500 bags

3. (a) Add; Sh. 2150 + Sh. 950 =  
 $2150 + 950 = 3100$  shillings

(b) Multiply;

$$\text{Sh. } 250$$

$$\times 30$$

$$250 \times 30 = 7500 \text{ shillings}$$

(c) Write in words the time shown on the clock.

The long hand is on 3 and the short hand is between 7 and 8.

$$\text{Minutes} = 15$$

$$\text{Hour} = 7$$

The time is seven fifteen

(d) Write “a quarter to two” in figures.

A quarter to means 15 minutes before

$$\text{A quarter to two} = 1:45$$

(e)

Hours Minutes

4 30

+2 45

Minutes:  $30 + 45 = 75$  minutes = 1 hour 15 minutes

Hours:  $4 + 2 + 1 = 7$

Total = 7 hours 15 minutes

4. (a) How many angles does a square have?

A square has four sides.

Each corner is one angle.

Total number of angles = 4

(b) Draw a shape with three angles.

A shape with three angles is a triangle.

(c) Find the perimeter of the following square: 14 cm.

One side = 14 cm

Perimeter of a square =  $4 \times \text{side}$

Perimeter =  $4 \times 14$

Perimeter = 56 cm

(d) A toilet room is rectangular with a perimeter of 54 m. If its length is 17 m, find the width of the room.

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

$54 = 2(17 + \text{width})$

$54 \div 2 = 17 + \text{width}$

$27 = 17 + \text{width}$

Width =  $27 - 17$

Width = 10 m

(e) The perimeter of a triangle is 70 cm. If the first side is 24 cm and the second side is 25 cm, find the length of the third side.

Perimeter = 70

Side 1 = 24

Side 2 = 25

Side 3 =  $70 - (24 + 25)$

$$\text{Side 3} = 70 - 49$$

$$\text{Side 3} = 21 \text{ cm}$$

5. Use the pictograph to answer the following questions.

By counting the tree symbols in the picture:

In 2011 there are 9 tree symbols.

In 2012 there are 5 tree symbols.

In 2013 there are 10 tree symbols.

(a) How many trees were planted in 2011?

Number of trees in 2011 = 9

Therefore, 9 trees were planted.

(b) In which year were the fewest trees planted?

2011 = 9 trees

2012 = 5 trees

2013 = 10 trees

The smallest number is 5 trees.

The year with the fewest trees planted is 2012.

(c) What is the difference in the number of trees planted in 2011 and 2012?

Trees in 2011 = 9

Trees in 2012 = 5

Difference =  $9 - 5 = 4$

The difference is 4 trees.

(d) In which year were the most trees planted?

2011 = 9 trees

2012 = 5 trees

2013 = 10 trees

The largest number is 10 trees.

The year with the most trees planted is 2013.

(e) How many trees were planted in total over the three years?

Total =  $9 + 5 + 10$

Total = 24

A total of 24 trees were planted over the three years.