

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

04E

MATHEMATICS

Time: 1:30 Hours

SOLUTIONS

Year: 2020

Instructions

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

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

1. (a) Write the number 12,659 in words.

12,659 = twelve thousand six hundred and fifty-nine.

- (b) Write eleven thousand one hundred and eleven in numerals.

Eleven thousand = 11,000

One hundred = 100

Eleven = 11

$11,000 + 100 + 11 = 11,111$

- (c) Write three quarters in figures.

Three quarters = $\frac{3}{4}$

- (d) Write the shaded part in the following shape.

The shape is divided into 4 equal parts.

The shaded parts are 2.

The shaded part = $\frac{2}{4} = \frac{1}{2}$

- (e) Musa is 40 years old. Write Musa's age using Roman numerals.

40 = XL

Musa's age = XL

2. (a) Arrange the following numbers in descending order, starting from the largest to the smallest: 125, 78, 111, 89, 305, 32, 120.

The correct order is 305, 125, 120, 111, 89, 78, 32.

- (b) Write the missing number in the following sequence: 36, 33, 30, __, 24.

$36 - 3 = 33$

$33 - 3 = 30$

$30 - 3 = 27$

$27 - 3 = 24$

The missing number is 27.

- (c) Write the next two numbers in the following sequence: X, XV, XX, XXV, __, __.

X = 10

XV = 15

XX = 20

$$XXV = 25$$

The increase is 5.

The next numbers are XXX and XXXV.

(d) Four trees follow each other in height as follows: 5 m, 8 m, 11 m, 14 m. What will be the height of the fifth tree if it follows the same pattern?

$$5 + 3 = 8$$

$$8 + 3 = 11$$

$$11 + 3 = 14$$

$$14 + 3 = 17$$

The height of the fifth tree is 17 m.

(e) Agnes counted numbers by subtracting ten to get the next number. If the first number was 80, find the sixth number.

$$\text{Number 1} = 80$$

$$\text{Number 2} = 80 - 10 = 70$$

$$\text{Number 3} = 70 - 10 = 60$$

$$\text{Number 4} = 60 - 10 = 50$$

$$\text{Number 5} = 50 - 10 = 40$$

$$\text{Number 6} = 40 - 10 = 30$$

3. (a) Multiply:

$$282$$

$$\times 17$$

$$282 \times 7 = 1974$$

$$282 \times 10 = 2820$$

$$2820 + 1974 = 4794$$

(b) Father gave Juma 10 coins, each worth five hundred shillings. How much money did Juma receive?

$$\text{One coin} = 500 \text{ shillings}$$

$$\text{Number of coins} = 10$$

$$500 \times 10 = 5,000 \text{ shillings}$$

(c) Subtract; Sh. 2,750 – Sh. 120 =

$$2750 - 120 = 2630 \text{ shillings}$$

(d) Janeti bought the following items at the market: 6 oranges for Sh. 200, one exercise book for Sh. 2,000, and 3 pens for Sh. 700. How much did she pay in total?

Oranges = 200 shillings

Exercise book = 2000 shillings

Pens = 700 shillings

Total = $200 + 2000 + 700 = 2900$ shillings

(e) Add:

Hours Minutes

5 38

+3 45

Minutes: $38 + 45 = 83$ minutes

83 minutes = 1 hour 23 minutes

Hours: $5 + 3 + 1 = 9$

Total = 9 hours 23 minutes

4. (a) A shape with four sides of equal length is called _____.

Answer = square.

(b) Ten half-litres of water are equal to how many litres of water?

Half a litre = 0.5 litres

$0.5 \times 10 = 5$ litres

(c) Convert 16,000 grams into kilograms.

1000 g = 1 kg

$16,000 \div 1000 = 16$ kg

(d) A school garden has a length of 25 m. How many centimetres is this length?

1 m = 100 cm

$25 \times 100 = 2500$ cm

(e) Chatanda Primary School is 2 km away from the main road. How many metres away is the school from the main road?

1 km = 1000 m

$2 \times 1000 = 2000$ m

5. (a) Anold alifanya jaribio la Hisabati katika siku tatu za wiki, yaani Jumatatu, Jumatano na Ijumaa. Alama alizopata zimeoneshwa kwenye grafu ya mhimili ufuatao. Je, ni siku gani alipata alama za juu zaidi?
Kwa kuangalia grafu, alama za Jumatatu ni takribani 35, za Jumatano ni takribani 30, na za Ijumaa ni takribani 40.
40 ni kubwa kuliko 35 na 30.
Siku aliyopata alama za juu zaidi ni Ijumaa.

(b) Jedwali lifuatalo linaonesha idadi ya wanafunzi wa darasa la tatu waliofaulu mtihani wa mwezi katika shule ya msingi Kazamwendo. Je, ni mwezi gani wanafunzi wengi zaidi walifaulu mtihani wa mwezi?

Februari = 68

Machi = 74

Aprili = 52

Mei = 69

Idadi kubwa zaidi ni 74.

Wanafunzi wengi zaidi walifaulu mwezi wa Machi.

(c) Wastani wa mauzo ya kalamu katika duka la Kapeto kwa siku nne yameoneshwa katika jedwali lifuatalo. Mauzo madogo kuliko yote yalikuwa ni shilingi ngapi?

Jumatatu = Sh. 22,000

Jumanne = Sh. 21,000

Jumatano = Sh. 23,000

Alhamisi = Sh. 20,000

Kiasi kidogo kuliko vyote ni 20,000.

Mauzo madogo kuliko yote yalikuwa shilingi 20,000.

(d) Idadi ya vitabu vya kusoma vilivyotolewa na serikali kwa miaka minne katika shule moja ni kama ifuatavyo.

2002 = 132

2003 = 135

2004 = 142

2005 = 124

Idadi kubwa zaidi ni 142.

Vitabu vingi zaidi vilitolewa mwaka 2004.

(e) Tani za mpunga zilizovunwa kwenye shamba la mkulima ziliongezeka sawa kila mwaka kwa miaka minne mfululizo na tani hizo zilioneshwa kwenye grafu ya mhimili ufuatao. Je, jumla ya tani ngapi zilivunwa kwa miaka yote minne?

Kwa kuangalia grafu, mwaka wa kwanza = tani 3, mwaka wa pili = tani 4, mwaka wa tatu = tani 5, mwaka wa nne = tani 6.

$$\text{Jumla} = 3 + 4 + 5 + 6$$

$$\text{Jumla} = 18 \text{ tani.}$$