

SMZ

ZANZIBAR EXAMINATION COUNCIL

STANDARD FOUR

MATHEMATICS

124

TIME: 2 HOURS

ANSWERS

Year: 2020 MORNING

INSTRUCTIONS TO CANDIDATES

- 1. This paper consists of TWO (2) sections A and B**
- 2. Answer ALL questions in section A and B.**
- 3. Cellular phones and calculators are not allowed in the examination room.**
- 4. All answers must be written by a blue or black pen.**
- 5. Write your answers on the space provided.**
- 6. Write your examination number on each page.**

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Page 1 of 5

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SECTION A (60 Marks)

Answer ALL questions in this section.

1. 8.45 metres – 1.81 metres =

$$8.45 - 1.81 = 6.64$$

Answer = 6.64 metres

2. Convert the fraction $\frac{3}{10}$ into a decimal.

$$3 \div 10 = 0.3$$

Answer = 0.3

3. An interview started at 4:34 a.m. and ended at 5:50 a.m. How long did the interview take?

$$\text{From 4:34 to 5:00} = 26 \text{ minutes}$$

$$\text{From 5:00 to 5:50} = 50 \text{ minutes}$$

$$\text{Total} = 26 + 50 = 76 \text{ minutes}$$

$$76 \text{ minutes} = 1 \text{ hour } 16 \text{ minutes}$$

Answer = 1 hour 16 minutes

4. Which number must be added to 526 to get 666?

$$666 - 526 = 140$$

Answer = 140

5. If you ride a bicycle for 8 kilometres in 1 hour, how far will you ride in 2 hours?

$$\text{In 1 hour} = 8 \text{ km}$$

$$\text{In 2 hours} = 8 \times 2 = 16 \text{ km}$$

Answer = 16 kilometres

6. Multiply 456×44

$$456 \times 44 = 456 \times (40 + 4)$$

$$= 456 \times 40 + 456 \times 4$$

$$= 18,240 + 1,824$$

$$= 20,064$$

$$\text{Answer} = 20,064$$

7. Add $5 \frac{1}{2} + 6 \frac{3}{2}$

$$5 \frac{1}{2} = \frac{11}{2}$$

$$6 \frac{3}{2} = \frac{15}{2}$$

$$\frac{11}{2} + \frac{15}{2} = \frac{26}{2}$$

$$\frac{26}{2} = 13$$

$$\text{Answer} = 13$$

8. Convert 67,000 metres into kilometres.

$$1 \text{ km} = 1000 \text{ m}$$

$$67,000 \div 1000 = 67$$

$$\text{Answer} = 67 \text{ kilometres}$$

9. How many kilograms are there in 56,000 grams?

$$56,000 \div 1000 = 56$$

$$\text{Answer} = 56 \text{ kilograms}$$

10. Simplify $2x + y + y + x + y + 3y$.

$$\text{x terms: } 2x + x = 3x$$

$$\text{y terms: } y + y + y + 3y = 6y$$

$$\text{Answer} = 3x + 6y$$

11. The bus fare for one passenger is 400 shillings. How much money will be collected from 9 passengers?

$$400 \times 9 = 3600$$

$$\text{Answer} = 3600 \text{ shillings}$$

12. Hours Minutes Seconds

$$\begin{array}{r} 12 \quad 15 \quad 9 \\ - 2 \quad 18 \quad 39 \\ \hline \end{array}$$

Seconds: 9 cannot subtract 39, borrow 1 minute = 60 seconds

$$69 - 39 = 30$$

Minutes: 14 cannot subtract 18, borrow 1 hour = 60 minutes

$$74 - 18 = 56$$

$$\text{Hours: } 11 - 2 = 9$$

Answer = 9 hours 56 minutes 30 seconds

13. How many millilitres are there in 1 litre?

1 litre = 1000 millilitres

Answer = 1000 millilitres

14. Subtract 0.02 from 0.78.

$$0.78 - 0.02 = 0.76$$

Answer = 0.76

15. Which month of the year has the fewest days?

The month with the fewest days is February.

16. Asha bought the following items: one bottle of water for 1,000 shillings, 20 loaves of bread for 3,000 shillings, six packets of milk for 9,000 shillings, and three crates of soda for 10,000 shillings. If Asha had 30,000 shillings, how much money remained after buying these items?

$$\text{Total spent} = 1,000 + 3,000 + 9,000 + 10,000 = 23,000 \text{ shillings}$$

$$\text{Remaining money} = 30,000 - 23,000 = 7,000 \text{ shillings}$$

17. Perform the following calculations A, B, C, and D. Which box has the largest answer?

$$\text{A: } 10 - 6 = 4$$

B: $8 + 7 = 15$

C: $22 - 16 = 6$

D: $3 + 10 = 13$

The box with the largest answer is B

18.(a)

(i) What is the meaning of an angle?

An angle is a figure formed by two lines that meet at a single point called the vertex.

(ii) Write the names of five angles shown in the diagram below.

The five angles are AOB, BOC, COD, DOE, and EOF according to the letters shown in the diagram.

(b) Mention six tools used to draw angles.

The tools used are a ruler, protractor, pencil, compass, paper, and eraser.

19.(a) 600,000 shillings were shared equally among 15 workers. How much did each worker receive?

Each worker received $600,000 \div 15 = 40,000$ shillings because the money was shared equally.

(b) Write the shaded fractions of the shapes shown below.

$\frac{2}{5}$, $\frac{2}{4}$

20.(a) What is the meaning of weight?

Weight is a measurement that shows how heavy an object is, using units such as grams and kilograms.

(b) Mr. Ali distributed 1000 kilograms of rice to families in the village. If each family received 20 kilograms, how many families benefited from the donation?

Number of families = $1000 \div 20 = 50$ families, because each family received 20 kilograms of rice.