

**CHILIPA ZONAL CLUSTER MOCK EXAMINATION**

2023 PRIMARY SCHOOL LEAVING CERTIFICATE EXAMINATION

**MATHEMATICS**

(100 marks)

**Subject number: P131**

Thursday \_\_\_ / \_\_\_ / 2023

**2023 Time allowed: 2 hours  
8:00-10:00 am**Name of candidate: \_\_\_\_\_  
(surname first)

Name of school: \_\_\_\_\_

**Instructions**

1. **This paper contains 8 printed pages please check**
2. There are **20** multiple choice questions in section **A** and **10** questions in section **B**
3. Answer **all** questions. In section **A**, encircle the letter corresponding to the right answer to each question. In section **B**, write your answers in the spaces provided under each question.
4. In Section **B**, you are required to show **all** your working
5. The use of electronic calculator is **not** allowed.
6. In the table provided on this page, tick against the number you have answered.
7. Please make sure that you have written your **examination number**, your name and **school name** on the question paper in the spaces provided.
8. Hand in your examination paper to the invigilator when time is called to stop writing.

	Tick 21-30 If answered	Do not write In these columns	
<b>1-10</b>			
<b>11-20</b>			
<b>21</b>			
<b>22</b>			
<b>23</b>			
<b>24</b>			
<b>25</b>			
<b>26</b>			
<b>27</b>			
<b>28</b>			
<b>29</b>			
<b>30</b>			

*Turn over.....*

**SECTION A (40marks)**

- Convert the following Roman numerals to Hindu arabic CMXLIX
  - 949
  - 1049
  - 959
  - 961
- Simplify  $12x + 8y - 5 - 7y + 5x + 6$ 
  - $7x - y + 1$
  - $7x + y + 1$
  - $17x - y + 1$
  - $17x + y + 1$
- The perimeter of a rectangular garden is 62m. The length of the garden- is 17m. What is its width?
  - 28m
  - 14m
  - 31m
  - 45m
- The length of a minute hand of a clock is 12cm. find the distance that the tip of the of the minute hand moves in 60 minutes. (take  $\pi = 3.14$ )
  - 75.36cm
  - 75.42cm
  - 73.36cm
  - 188.41cm
- Chisomo is 9 years old and Twaibu is x years old. The sum of their ages is 36 years. How old is Twaibu?
  - 55
  - 17
  - 21
  - 56
- Express 0.995 to the nearest whole number
  - 10
  - 1
  - 1.000
  - 10.005
- A saleslady gets a commission of K170 on every K2, 000 she makes. If she sold goods worth K30, 000, find her commission
  - K2, 550
  - K60, 000, 000
  - K15, 000
  - K1, 500
- Subtract 0.345 from the sum of 0.71 and 1.0005
  - 10.370
  - 1.6760
  - 1.3655
  - 1.2645
- Which of the following complete the number pattern; (2,30) (15,4) (1, \_\_\_) (12, \_\_\_)
  - (1, 5) ((12, 60)
  - (1, 60) (12, 5)
  - (1, 30) (12, 5)
  - (1, 5) (12, 30)

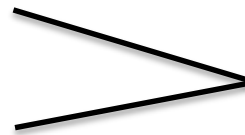
- Simplify  $x - 2 \leq 13$ 
  - $x \leq 15$
  - $x \leq 11$
  - $x \geq 11$
  - $x \geq 15$

- Arrange the following fractions in ascending order  $\frac{1}{3}, \frac{3}{4}, \frac{5}{6}, \frac{1}{2}, \frac{7}{8}$

- $\frac{1}{3}, \frac{3}{4}, \frac{5}{6}, \frac{1}{2}, \frac{7}{8}$
- $\frac{1}{2}, \frac{3}{4}, \frac{1}{3}, \frac{5}{6}, \frac{7}{8}$
- $\frac{1}{3}, \frac{1}{2}, \frac{3}{4}, \frac{5}{6}, \frac{7}{8}$
- $\frac{1}{2}, \frac{1}{3}, \frac{5}{6}, \frac{3}{4}, \frac{7}{8}$

- John was sent to the market to buy 10, 500 grams of rice. How much did he buy if it was put in kilogrames
  - 10, 500kg
  - 105kg
  - 10.5kg
  - 1.5kg
- A shopkeeper sold a loaf of bread at K110.00 and made a loss of K5.00. calculate the loss percent
  - 3.4%
  - 5%
  - 4.3%
  - 7%

Figure 1 shows a type of an angle. Use it to answer question 14



- What name is given to the type of an angle x?
  - Acute
  - Obtuse
  - Reflex
  - Right
- A drawing of a snake is 6cm long. What is the actual length of the snake if the scale used was 1:10?
  - 0.06cm
  - 0.6cm
  - 6.0cm
  - 60cm
- What is the least length of rope that can be cut into pieces of 96m, 84cm, 48cm and 72cm long?
  - 2016
  - 1620
  - 288
  - 672

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17. A period of 5 years is known as \_\_\_\_\_

- A. Generation    C. Instrum  
B. Century      D. Silver jubilee

18. An aeroplane is flying from Malawi to Zambia. It is flying at the speed of 560Km per hour. How far will it go in 15 minutes?

- A. 8400km      C. 1500Km  
B. 140Km      D. 150Km

19. What is 999, 500 tambala in Kwacha and tambala?

- A. K999 05t      C. K9995 00t  
B. K999 50t      D. K99 950t

20. At what rate is k500 going to yield K2500for 5 years?

- A. 5%              C. 10%  
B. 4%              D. 10.5%

**SECTION B (60marks)**

21. a) Simplify  $2\frac{2}{9} \times (3\frac{3}{4} - 1\frac{5}{8}) \div 1\frac{1}{3}$

(4marks)

b) Form an equality from the following statement and solve it. 5 added to x is greater than or equal to 16.

(3marks)

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22. Matola bought 5 metres of cloth at K1475 per metre, 18 oranges at 3 for K500 and  $3\frac{1}{2}$  kg of meat at K2500 per kg. If he had K20, 000, how much change did he get?

(5marks)

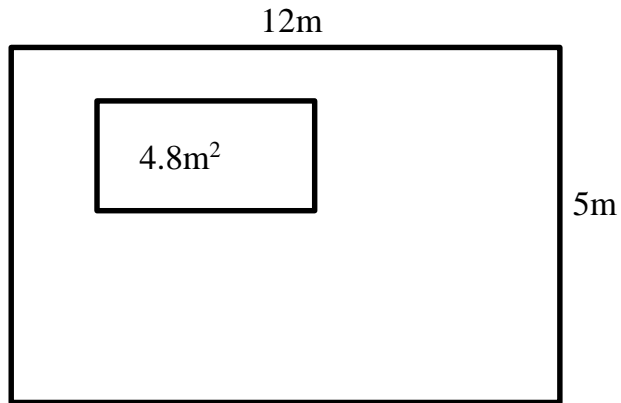
23. a) The value of a motor cycle went down by  $12\frac{1}{2}\%$  to K975, 000 after one year. Find the original value of the motor cycle.

(4marks)

b) Solve the equation  $3y + 2y - 4y - 7 = 6$

(3marks)

24. A wall measures 12m long by 5m wide. It has a window whose area is  $4.8\text{m}^2$ .



Find

- a. Area of the wall

(3marks)

- b. The cost of painting the wall if the rate is k350.00 per  $\text{m}^2$ .

(3marks)

25. A bus left Mzuzu at 6:30am and reached Kasungu at 2:00pm on the same day. If it was travelling at an average speed of 45km/hr, calculate the distance covered.

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(5marks)

26. a) A circular ground has a diameter of 28.7m. Calculate the length of the wire that could be used to fence the ground. (Take  $\pi = \frac{22}{7}$ )

(3marks)

b) A family has 3 meals in a day. During each meal, 750ml of orange squash is used. How many days will the family take to use 9000ml of orange squash?

(4marks)

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27. Chilipa zone was established a century ago, in a decade to come it will be called Chilipa Zonal Cluster Centre. How old will it be at that time?

(3marks)

28. Chifuniro Basket making transactions for the month of January 2023 were as follows:

- |  |       |
|--|-------|
| • January 1 balance in the bank        | K8225 |
| • January 4 bought materials by cheque | K2100 |
| • January 9 bought materials by cheque | K1600 |
| • January 14 bank cheque               | K5760 |
| • January 17 paid transport by cheque  | K1700 |

Prepare bank account for Chifuniro and balance it.

(7marks)

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29. Using a ruler and a protractor construct a rhombus ABCD in which  $CD = 5\text{cm}$   
and angle  $DCB = 130^\circ$

(5marks)

30. a) Alinafe is twice as old as Mary. If the sum of their ages is 48 years, find the age of Alinafe.

(5marks)

b) In a number pattern, the first number is 26, the second number is 40 and the third number is 54.  
Calculate the fourth number.

(3marks)

**END OF QUESTION PAPER**

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