EXAMINATION NUMBER: ______CHIKALA ZONE EXAMINATION BOARD

2022 PRIMARY SCHOOL LEAVING CERTIFICATE MOCK EXAMINATION

MATHEMATICS

(100 marks)

Date: _____

Subject number: _____ Time allowed: _____

Instructions:

- 1. This paper contains 6 pages. Please check.
- Answer all questions. In Section A, encircle the letter representing the right answer to each question. In Section B, write your answer in spaces provided on the question paper.
- There are 20 multiple choice questions in Section A and 5 questions in Section B.
- 4. In Section B you need to show your working.
- 5. The use of electronic calculators is **not** allowed.
- **6.** In the table provided on this page, tick against the question you have answered.
- 7. IMPORTANT
 - Please, make sure you have written your
 name, school name and zone on the question paper.
 - Please, hand in your filled in question paper to the **invigilator** at the end of the examination.

Question	Tick if	Do not write	
Number	answered	in these	
		columns	
1 – 20			
21			
22			
23			
24			
25			
	1		

EXAMINATION NUMBER: _ SECTION A (40 marks)

Encircle the letter (A, B, C or C) that represents the correct answer of your choice.

- 1. Express 26843 to the nearest 1000. A. 26 000 C. 27 000
 - A. 20000
 C. 27000

 B. 26100
 D. 271000
- 2. Complete $\frac{2}{3} = \frac{1}{18}$ A. 12 C. 8 B. 6 D. 10
- 3. Simplify 3b 2x + b 6xA. 4b - 4x C. 4b + 8xB. 4b + 4x D. 4b - 8x
- 4. Increase 40 by 50%

A.	10	C. 60
B.	20	D. 90

5. What is the place value of 4 in the number 762043?

a ...

A.	Ones	C. Hundreds
В.	Tens	D. Thousands

- 6. Solve the equation 4y 5 = 23.
 A. 6 C. 18
 B. 7 D. 28
- 7. Find the mode of the following height for STD 7 learners at Liwewe School.
 1.6m, 1.7m, 1.2m, 1.7m, 1.4m, 1.6m and 1.7m.
 A. 1.2m C. 1.6m
 B. 1.4m D. 1.7m
- 8. Express 0.999 to2 significant figures.
 A. 0.9 C. 1.0
 B. 1.09 D. 1.00

Figure 1 shows a type of quadrilateral. Use it to answer question 9.



9. Name the quadrilateral.A. Kite C. RectangleB. Parallelogram D. Trapezium

3.6	
10. Evaluate $\frac{1}{0.4 \times 0.3}$	
A. 0.3	C. 30
B. 3	D. 360

- 11. Simplify the ratio $2\frac{1}{4}$: $4\frac{1}{2}$ in its simplest form. A. $\frac{1}{4}$ B. $\frac{3}{4}$ C. $\frac{1}{2}$ D. $\frac{2}{3}$
- 12. **Figure 2** shows a triangle with sides 80cm, 36cm and P.



 Find P if the perimeter is 141cm.

 A. 25
 C. 125

 B. 35
 D. 135

13. Find the height of a rectangular object if its volume is $21m^3$, length is 3.5m and width is 8m.

A.	4m	C. 6.00m
B.	5.25m	D. 14cm

14. Find the area of a circle whose diameter is $28 \text{cm} \left(\text{Take } \pi = \frac{22}{7} \right)$ A. 2464cm² C. 616cm² B. 88cm² D. 308cm²

EXAMINATION NUMBER:

15. The perimeter of a rectangle is 60m. if one of its width is 8cm, find its length.

A.	22m	C. 52m
B.	44m	D. 68m

- 16. Upile celebrated his silver Jubilee in 2018. When will he celebrate his silver Jubilee? A. 2043 C. 2068
 - B. 2043 D. 2078
- 17. The temperatures of three metals are 33° C, 35° C and 38° C. When the temperature of a fourth metal is included, the average temperature becomes 38° C. Find the temperature reading of the fourth metal. A. 46 C. 106
 - B. 56 D. 152
- 18. Which of the following fractions is the

largest	3	5	3	and	7	
largest	4'	8'	10	ana	20	
3					C	5
A. <u>-</u>					C.	8

B. $\frac{3}{10}$ D. $\frac{7}{20}$

Table 1 shows number of people fromKobwe village that got ill. Use it to answerquestions 19 and 20.

	Table 1
Disease	Tallies
Malaria	₩ ₩ ₩ ₩ ₩ III
Pneumonia	
TB	

- 19. Which of the following disease did the most people suffer from?
 - A. MalariaB. PneumoniaC. TBD. Malaria and TB
- 20. Find the total number of people who were suffering from Malaria and Pneumonia.
 - A. 21C. 43B. 28D. 49

SECTION B (60 marks)

Answer all questions in this section all questions in this section. Write your answers in the space provided under each question. Show your working.

21. a. Subtract 11.81 from 26.51 and divide the result by 4.2 (5 marks)

b. Simplify
$$2^{2}/_{9} \times (3^{3}/_{4} - 1^{5}/_{8}) \div 1^{1}/_{3}$$

(7 marks)

EXAMINATION NUMBER:

22. a. Find the amount to be paid on a loan of K30, 000 for 2 years at 5% simple interest. (4 marks)

23. a. Takondwa had y + 12 bananas and Chisomo has y - 4 bananas. If there were 60 bananas altogether, calculate the number of bananas represented by y. (5 marks)

b. Find the largest number of people who could share equally 56 cattle, 72 chickens and 108 pigs. (4 marks)

b. Three farmers put together money in the ratio 2:3:4 to buy fertilizer. Calculate the bags of fertilizer each farmer received, if they bought 486 bags. (7 marks)

EXAMINATION NUMBER: __

24. a. Using a ruler and a protractor, draw a parallelogram ABCD with AB = 40m, AD = 30m, angle $BAD = 45^{\circ}$, angle $ADC = 135^{\circ}$. Using a scale of 1cm to represent 5m. (7 marks)

b. Calculate the compound interest on K7600 for 2 years at 20% per annum. (8 marks)

25. a. **Table 2** shows sales of tax on salaries per month for a certain year.

Salary per month	Rate of tax
First K9000	0% (tax free)
Next K3000	15 %
Over K12 000	30%

Using the information on the table above, calculate the monthly tax a worker pays on a monthly salary of K72 500. (6 marks)

b. A shopkeeper had K30, 000 cash in hand on 1st December 2019 and on 8 December banked K8000, 27 December withdrew K12, 000. Prepare a cash book and balance it. (7 marks)

End of Question Paper