



MPINJI ZONE EXAMINATIONS BOARD
2024 PRIMARY SCHOOL LEAVING CERTIFICATE MOCK EXAMINATION
MATHEMATICS

(100 Marks)

Date: 29/ 02/2024

Time Allowed: 08:00 – 10:00 (2 hrs)

Name of Candidate : _____
(Surname First)

Name of School : _____

Instructions

1. This paper contains **6** printed pages. Please check.
2. Write your name and name of your school on spaces provided
3. The paper has four sections. **A, B, C** and **D**.
4. Follow instructions in each section
5. In the table provided, **tick** against the question number you have answered.

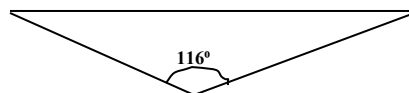
Question Number	Tick if answered	Do not write in this column	
1 - 20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

SECTION A: 40 MARKS

Choose letter (A, B, C or D) that gives the right answer.

1. Simplify $\frac{3}{4}$ of $\frac{5}{6} + \frac{1}{3}$
 - A. $\frac{5}{8}$
 - B. $\frac{65}{72}$
 - C. $\frac{23}{24}$
 - D. $\frac{1}{4}$
2. Subtract 0.176 from one whole number.
 - A. 0.976
 - B. 0.176
 - C. 82.4
 - D. 0.824
3. A girl sat for her PSLCE examination in 2005. If the girl was 16 years old at the time of writing her examinations, when was she born?
 - A. 1989
 - B. 2021
 - C. 1990
 - D. 2006
4. Mary got an interest of K5000 at the rate of 10% per annum, simple interest after 5 years, calculate the principle.
 - A. K2500
 - B. K10000
 - C. K25000
 - D. K8500
5. If 1 cm represents 12 km, which distance in km will 5.5 cm represents?
 - A. 55 km
 - B. 660 km
 - C. 66 km
 - D. 550 km
6. Simplify the ratio $2 : \frac{1}{4}$ to its lowest form.
 - A. 8 : 1
 - B. 1 : 8
 - C. 4 : 5
 - D. 5 : 4

Figure 1 shows a triangle XYZ. Use it to answer question 7.



7. Name the type of triangle.
 - A. isosceles
 - B. right-angled
 - C. equilateral
 - D. obtuse-angle
8. The perimeter of a rectangle is 40 cm. If the length is 14 cm, what is its width?
 - A. 12 cm
 - B. 6 cm
 - C. 20 cm
 - D. 54 cm
9. What is 84.0395 to 4 significant figures?
 - A. 84.039
 - B. 84.40
 - C. 84.04
 - D. 84.03
10. Which of the following Roman Numerals are arranged in descending order?
 - A. DXX DCL CM M
 - B. M CM DCL DXX
 - C. CM M DCL DXX
 - D. M CM DXX DCL
11. A bus left Zomba at 11:45 am and arrived at Lizulu at 01:00 pm. If it covered the distance of 120 km, calculate its speed.
 - A. 98 km / hr
 - B. 120 km /hr
 - C. 150 km /hr
 - D. 96 km /hr
12. Find the area of a circle whose diameter is 7 cm.
 - A. 38.5 cm²
 - B. 3.85 cm²
 - C. 385 cm²

- D. 22 cm^2
13. Mr Phiri sold a dress at K24 000 at a loss of 20%. Calculate the cost price.
- A. K20000
B. K25800
C. K30000
D. K19200
14. Write 2:45 pm in 24 hours.
- A. 14:45 pm
B. 14:45 hrs
C. 3:09 pm
D. 2:21 hrs
15. Express 4500 cm^3 in litres.
- A. 0.45 l
B. 4500 l
C. 45 l
D. 4.5 l
16. If $x = 3$, then $x + 6$ $10 - x$
- A. $>$
B. $=$
C. $<$
D. \geq

17. The cost of 5 kg of meat is K15000. Calculate the cost of 1000g of meat.
- A. K6500
B. K3000
C. K75000
D. K10000
18. Evaluate $7x + 2y + 4x - 4y$.
- A. $11x + 6y$
B. $11x + y$
C. $11x - 2y$
D. $11x + 2y$
19. Find the least number of which can be divided by 12, 20 and 32 without a remainder.
- A. 176
B. 360
C. 4
D. 480
20. Decrease 120 by 5%.
- A. 114
B. 126
C. 600
D. 136

SECTION B: 60 MARKS

21. a. Divide the sum of 5.4 and 0.96 by 1.6. (3 marks)

- b. Find the value of m if $3m - 13 = 14$. (2 marks)

22. **Table 1** shows premium rate. Use it to answer questions that follow.

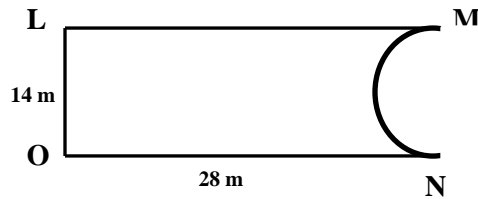
Type of property	Premium per month (MK)
Big house	1580
House furniture	750
Office furniture	1050
Small house	950

Mr Friday paid a total premium of K45000 after ensuring property for an agreed period of 5 years.

a. Calculate the premium per month. **(3 marks)**

b. What property was ensured? **(1 mark)**

23. **Figure 3** below shows composite figure with LMRNO sides.



a. Calculate the perimeter of the figure. **(4 marks)**

b. Find the cost of fencing at K1250 per metre. **(3 marks)**

24. a. Mrs Moyo sold a dress at K19000 at a loss of 5%. Find the cost price. **(3 marks)**

b. Complete the following pattern:

(2, 30), (15, 4), 1, _____, (12, _____)

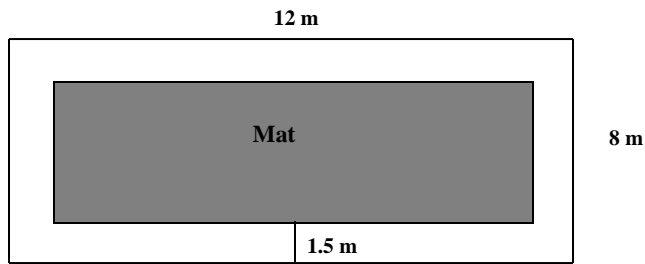
(2 marks)

25. **Table 2** below shows income tax rates. Use it to questions that follow.

Income tax	Tax rate
First K12000	0 % (No tax)
Next K30000	15 %
Excess (Over) K15000	30 %

26. How much money does a person who receives a salary of K45000 get after deducting tax? **(7 marks)**

27. **Figure 6** below is a diagram showing a rectangular room measuring 12m by 8m with a mat inside. Use it to answer questions that follow.



- a. Find the area of the room which is not covered. **(4 marks)**
- b. The average weight of 8 bags of maize was 14 kg. The average weight of another 4 bags was 20 kg. What was the average weight of the 12 bags together? **(4 marks)**
- c. Simplify the ratio 1m 50 cm : 75cm to its lowest form. **(2 marks)**
- d. Convert R510 to Malawi Kwacha if 1R= K94.00. **(3 marks)**
28. The picture graph below shows the number of trees planted at a certain school on Thursday, Friday and Saturday during a tree planting week.

Thursday 

Friday 

Saturday 

29. Given that  represents 60 trees.

- a. How many trees were planted on Thursday? **(2 marks)**

b. How many more trees were planted on Friday than on Saturday? **(3 marks)**

30. Using ruler, pencil and protractor, calculate a rhombus RSTU with sides 6cm long and angle $\text{RST} = 60^\circ$. **(4 marks)**

31. Prepare a cash book for Mr Muchawa from the following transactions and balance it as on 31st October, 2023. **(8 marks)**

October 1, 2023 balance in cash K10000

October 19, cash sales K12000

October 20, banked K8000

October 29, withdrew K4270

October 30, paid rent by cash K3200

END OF QUESTION PAPER