



EXAMINATION NO: _____
THE MALAWI NATIONAL EXAMINATIONS BOARD

2010 PRIMARY SCHOOL LEAVING CERTIFICATE EXAMINATION

MATHEMATICS
(100 marks)

SAMPLE PAPER

Subject Number: P131
Time Allowed: 2 hours
Time: _____

Name of Candidate: _____
(Surname First)

Name of School: _____

Instructions

1. This paper contains 12 pages. Please check.
2. Answer all questions. In section A, encircle the letter representing the right answer to each question. In section B, write your answers in the spaces provided under each question.
3. There are 20 multiple choice questions in section A and 10 questions in section B.
4. You are provided with loose sheets of paper for rough work for section A.
5. In section B you need to show your working.
6. The use of electronic calculators is **not** allowed.
7. In the table provided on this page, tick against the question number you have answered.
8. Please make sure you have written your **examination number, name and school name** on the question paper in the spaces provided.

Question Number	Tick Questions 21-30 if answered	Do not write in these columns	
1-10			
11-20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

- Hand in your examination paper to the invigilator when time is called to stop writing.
- Do not hand in the rough work done for Section A.

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Turn over/...



Section A (40 marks)

Answer **all** questions in this section.

Use rough paper for your working in this section only.

Encircle the letter corresponding to the right answer for each question.

1. Write the following Roman numerals XIV, XIX, XX, XVIII in ascending order.
 - A. XIX, XX, XIV, XVIII
 - B. XIV, XVIII, XIX, XX
 - C. XX, XIX, XVIII, XIV
 - D. XVIII, XIX, XIV, XX
2. Express 0.37 litres in cm^3 .
 - A. 37 cm^3
 - B. 370 cm^3
 - C. 3700 cm^3
 - D. 37000 cm^3
3. Zikhale was awarded 75% in Mathematics test. If the test was marked out of 40, how many marks did Zikhale get?
 - A. 25
 - B. 30
 - C. 40
 - D. 50
4. Evaluate $\left(\frac{2}{9} + \frac{1}{2}\right) \div \left(\frac{9}{10} - \frac{3}{6}\right)$.
 - A. $\frac{9}{10}$
 - B. $\frac{3}{10}$
 - C. 9
 - D. 3
5. Find the LCM of 6, 8 and 12.
 - A. 48
 - B. 24
 - C. 12
 - D. 2
6. The average of 5 numbers is 95. If the first four numbers are 97, 105, 88 and 114. Find the fifth number.
 - A. 19
 - B. 101
 - C. 71
 - D. 91

Continued/...

7. Figure 1 shows four boxes M, N, O and P used for storing beans.

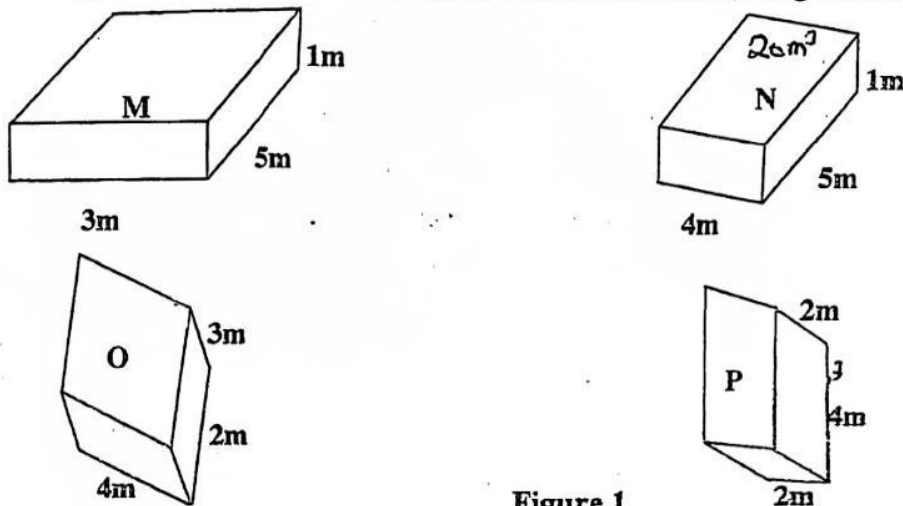


Figure 1

Which box would keep the largest amount of beans?

- A. M
B. N
C. O
D. P
8. Simplify $5t + 12r + 3t - 10r$.
A. $2t - 2r$ C. $15t + 2r$
B. $8t - 2r$ D. $8t + 2r$
9. Convert R200 into Malawian Kwacha given that 1 Rand = K19.74.
A. K3 948.00
B. K39 480.00
C. K394 800.00
D. K3948000.00

10. The total mass of 9 chickens is 18.288 kg. If the chickens weigh the same, calculate the mass of each chicken.
A. 2.032 kg
B. 2.32 kg
C. 8.279 kg
D. 18.297 kg
11. A trader made a loss of 20t in every kwacha after selling a cow at K12 000. Calculate the cost price of the cow.
A. K2 400 C. K14 400
B. K9 600 D. K15 000
12. What is the next number in the following pattern?
810, 270, 90, ____
A. 45
B. 30
C. 15
D. 10

Continued ...

Table 1 shows number of books shared in a certain class. Use it to answer questions 13 and 14.

Table 1

Books	Tallies
English	HHI HH~ HH~ I
Mathematics	HHI HHI HH~ IIX
Chichewa	HH~ HH~ I

13. How many English books were shared?
- A. 16
B. 18
C. 35
D. 45
14. Find the total number of books shared.
- A. 16
B. 18
C. 35
D. 45
15. A shopkeeper has thirty K500 notes, twelve K200 notes, fifteen K100 notes and forty K50 notes. How much money does the shopkeeper have altogether?
- A. K7 500
B. K15 000
C. K20 900
D. K18 900

16. Figure 2 shows an angle marked x , drawn accurately.

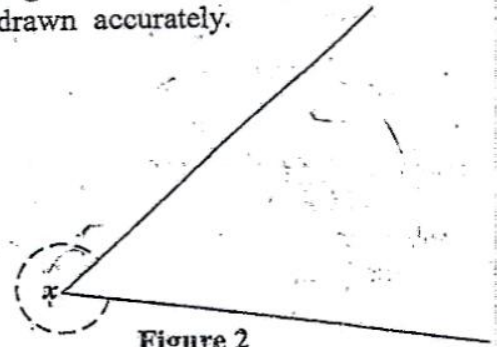


Figure 2

What is the size of angle x ?

- A. 50° C. 310°
B. 60° D. 360°
17. Calculate the total length of a ribbon required to decorate around a triangular piece of cloth with sides 3 m, 1 m 45 cm and 1 m 45 cm.
- A. 2 m 93 cm
B. 3 m 45 cm
C. 4 m 45 cm
D. 5 m 90 cm
18. Formulate the number sentence for the following statement:
Luka thinks of a number c and then adds 8 to it, the result is greater than 14.
- A. $c + 8 \leq 14$
B. $c + 8 < 14$
C. $c + 8 \geq 14$
D. $c + 8 > 14$

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19. Figure 3 shows a quadrilateral ABCD.

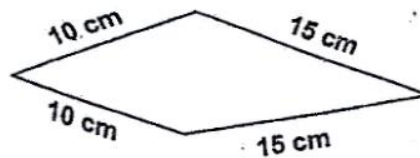


Figure 3

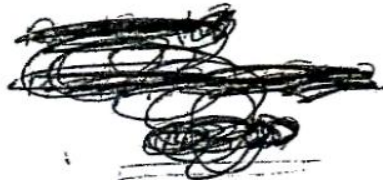
What is the name of the quadrilateral?

- A. kite
 - B. trapezium
 - C. square
 - D. rhombus
20. After how long would K75 000 yield K3 000 simple interest at 2% per annum.
- A. $\frac{1}{2}$ yr
 - B. 2 yrs
 - C. $14\frac{1}{2}$ yrs
 - D. 50 yrs

Section B (60 marks)

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

21. A trader had n shirts to sell. If 12 of the shirts were sold and remained with 15 shirts, calculate the total number of shirts represented by n . (3 marks)



Continued/...

22. The rule for generating a number pattern is subtracting 14. Generate the pattern, beginning with 105 and ending with 63. (3 marks)
23. Titha walked a distance of 6 km in 2 hours and then cycled for 4 hours at 6 km per hour. Calculate the average speed for the whole journey. (5 marks)

Continued/...



24. Chisomo decreased a number by 10% and Yamikani increased the same number by 20%. If the difference of the new numbers Chisomo and Yamikani got is 60, calculate the original number. (6 marks)

 $x +$

25. A group of patients had their body temperature measured. The results are shown in Table 2.

Table 2

Patients	Body Temperature (°C)
A	38.2
B	39.6
C	37.7
D	39.7

- a. Which person had the highest body temperature? (1 mark)
- b. Calculate the average body temperature of the four patients. (4 marks)

Continued/...

26. Figure 4 is a composite figure consisting of a square and a circle.

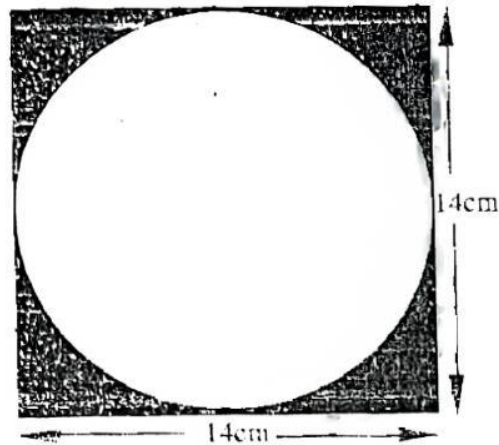


Figure 4

Calculate the area of the shaded part.

(7 marks)

Continued

27. Figure 5 shows a garden in form of a triangle XYZ in which $XY = 400$ m, $YZ = 600$ m and angle $XYZ = 90^\circ$

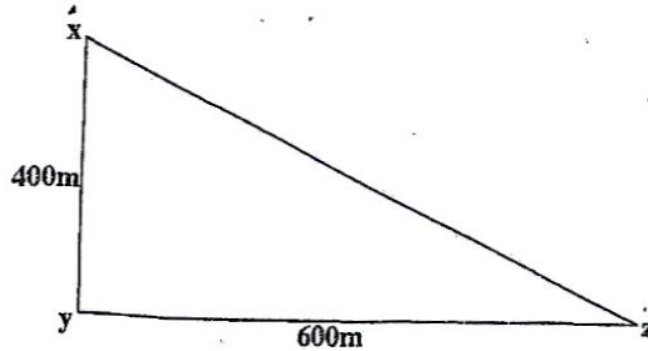


Figure 5

- a. Draw the figure accurately using a scale of 1 cm representing 100 m.

(4 marks)

- b. Measure line XZ and state its length on the actual ground.

(2 marks)

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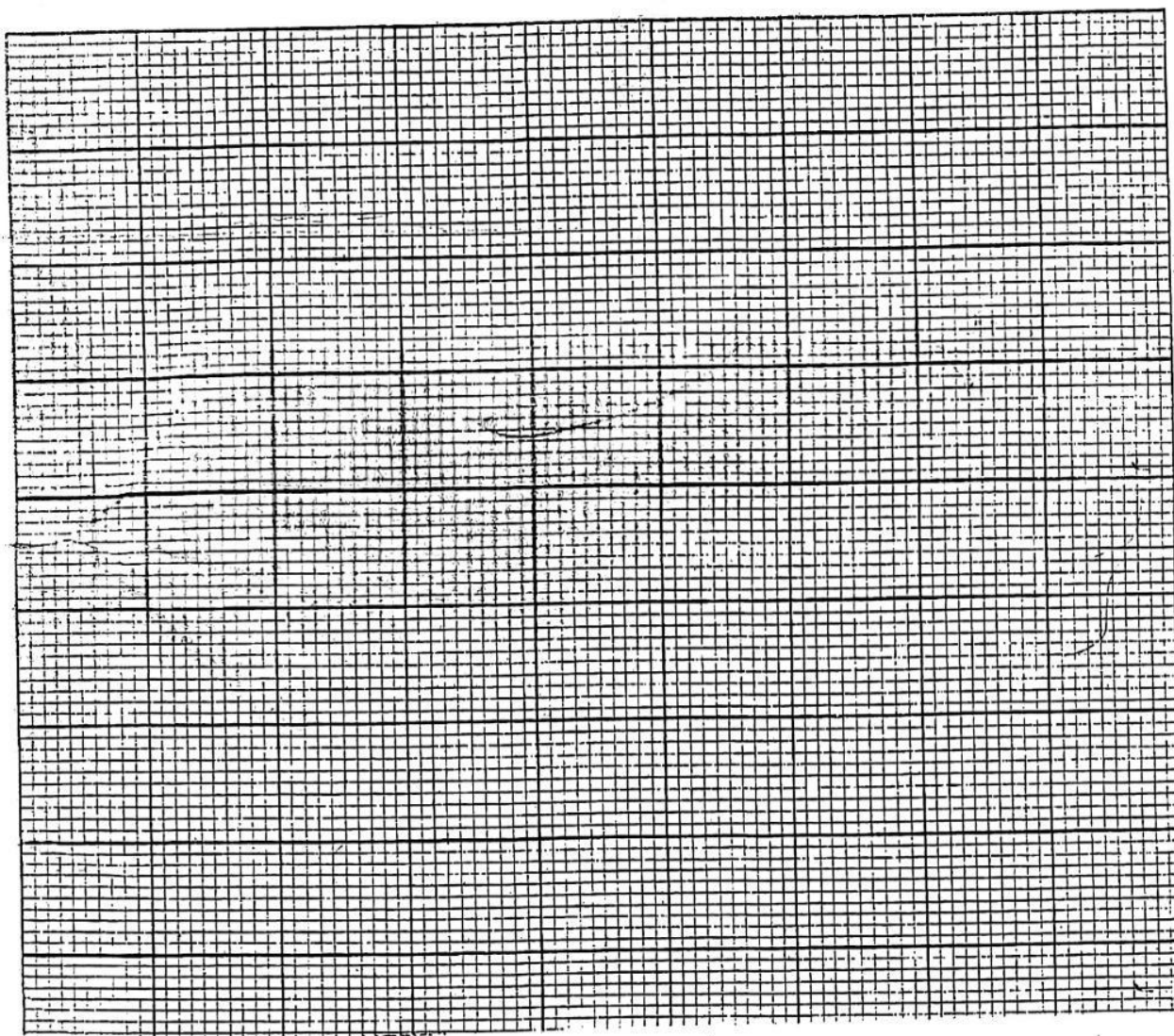
28. Table 3 shows temperatures in degrees celsius recorded in towns A, B, C, D and E.

Table 3

TOWN	A	B	C	D	E
Temperatures in degrees celcius	30	25	35	25	40

Using scale of 2 cm to represent 10 degrees celcius, draw a bar graph on the graph paper shown below to represent this information.

(7 marks)



28. (Continued)

b. Using the information in the table, find the median. (2 marks)

29. Mrs Zantchito started her business on 1st January with K25 000.00 cash in hand. During the month, the following were her transactions:

January 1st banked K10 000 00

January 5th bought beans for cash K4 000 00

January 10th sold beans worth K6 000.00 for cash

January 25th sold beans by cheque K20 000.00 and banked it

January 25th withdrew K17 000.00 from the bank.

Prepare Mrs Zantchito's cashbook, balance and bring down the balance ready
For business on 1st February (11 marks)

Continued

30. Table 4 shows commission of sending money by postal order, registration fee and postage stamp rate.

Table 4

Value of Postal Order	Commission	Registration Fee	Postage Stamp
K50	K5	K25	K40 each
K100	K10	K25	
K200	K20	K25	
K500	K50	K25	
K1000	K100	K25	

Calculate the total cost of sending K5000 by postal order as registered item.

(5 marks)



END OF QUESTION PAPER

NB. This paper contains 12 pages.

