

LUGAZI DIOCESE EXAMINATION BOARD

PRIMARY SEVEN MOCK EXAMINATION

2025

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No. : 

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Candidate's Name : .....

Candidate's Signature : .....

School : .....

Read the following instructions carefully:

1. This paper has **two** sections: **A** and **B**.
2. All the working for both sections **A** and **B** must be shown in the spaces provided.
3. All working must be done using a blue or black ball-point pen or fountain pen. Any work done in pencil other than graphs, pictures and diagrams will **not** be marked.
4. **No calculators** are allowed in the examination room.
5. Unnecessary changes of work may lead to **loss** of marks.
6. Any handwriting that cannot easily be read may lead to **loss of marks**.
7. Do **not** fill anything in the boxes indicated:  
**"For Examiners' Use Only"**

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXRS' NO.
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		



**SECTION A: (40 MARKS)**

**(Questions 1 to 20 carry two marks each.)**

1. Workout:

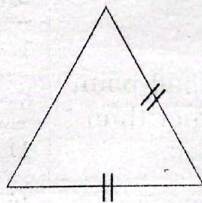
$$\begin{array}{r} 24 \\ + 53 \\ \hline \end{array}$$

2. Write 2025 in words.

3. Workout the additive inverse of  $-4$ .

4. Solve:  $2k - 5 = 11$

5. How many lines of folding symmetry has the figure below?



6. Find the sum of the next two numbers in the sequence;

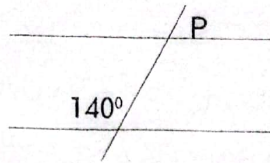
2, 3, 5, 7, ....., .....

7. A quarter minute lesson ended at noon. What time did it start?

8. A bag of coffee weighs 120kg. How many small packets of 25g can be obtained from the bag?

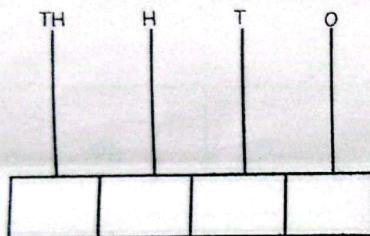


9. Find the value of  $p$  in the diagram below.



10. In a basket, there are 15 ripe mangoes and 3 raw mangoes. If one mango is picked at random, what is the probability of picking a ripe mango?

11. Represent 4,352 on the abacus below in base ten.



12. Workout the median of 8, 9, 5, 13, 9, 8, 11 and 20.

13. Martina bought a school bag at sh. 72,000 and sold it at sh. 100,000. Calculate Martina's profit.

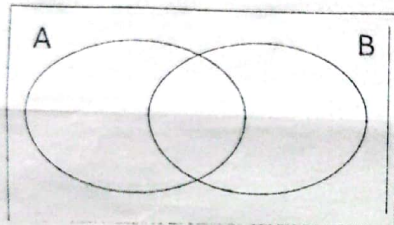
14. Workout:  $2 \times 2^2 \dots\dots\dots$  (finite 7) using a dial method.



15. Solve for  $m$ :  $3(m-1) - 2(m-2) = 7$

16. In a class, 40% of the pupils are boys and the rest are girls. If there are 36 girls in the class, find the total number of pupils in the class.

17. Shade  $(A \cup B)$  in the venn diagram.



18. How many 500-shilling coins are equivalent to twenty-thousand-shilling notes?

19. Given that  $n=12$  and  $4m=n$ , find the value of  $7m - n$ .

20. Calculate the time a motorist took to cover 45,000 metres at a speed of 90km/hr.



SECTION B: (60 MARKS)

Answer all questions in this section.

21. The table below shows how Antonio spends his monthly salary. Study and use it to answer the questions that follow.

Item	School fees	Food	Transport	Rent	Others
% expense	15%	20%	K%	10%	15%

(a) Calculate the value of K.

[2marks]

(b) If he spends sh. 60,000 on others, calculate his monthly salary.

[2marks]

(c) How much more does he spend on food than rent?

[2marks]

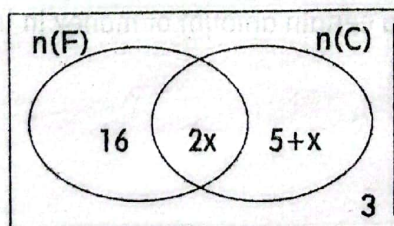
22. (a) Workout: 
$$\begin{array}{r} 312_{\text{four}} \\ - 113_{\text{four}} \\ \hline \end{array}$$

[2marks]

(b) Convert  $23_{\text{ten}}$  in base five.

[2marks]

23. The venn diagram below shows boys in a certain group who served their best sauce; fish (F) and chicken (C). 3 boys did not serve either of the two types of sauce.





- (a) Given that 23 boys were served either fish or chicken but not both, find the value of  $X$ .  
[2marks]

- (b) Find the probability of selecting a boy who served chicken. [2marks]

24. (a) Complete the frequency table below. [1mark@]

Marks	Tally	Total mark
80		.....
60	.....	120
.....		200
90	.....	90

- (b) Calculate the average mark. [2marks]

25. A motorist took 7 hours to cover a journey. For the first 3 hours, his average speed was 70km/hr and covered the remaining distance at a constant speed of 56km/hr. calculate his average speed for the whole journey. [5marks]

26. Jack, Martina and Ben shared a certain amount of money in the ratio 2:3:5 respectively. If Martina received shs. 36,000.

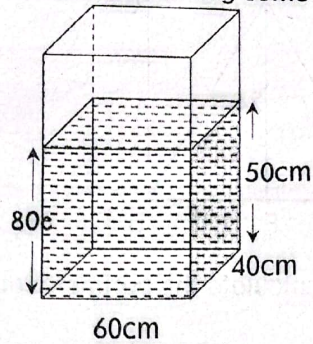
- (a) Find their total share. [3marks]



(b) How much less did Jack receive than Ben?

[2marks]

27. Below is a rectangular tank containing some water.



(a) How much water is in the tank?

[2marks]

(b) How many litres are needed to fill the tank?

[3marks]

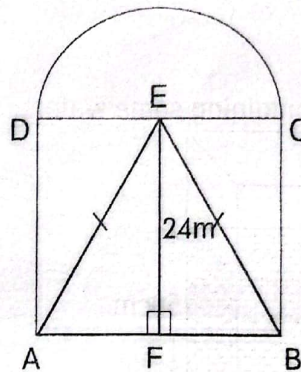
28. Study and complete Padre Pio's shopping table below.

[1mark@]

Item	Quantity	Unit cost	Amount
Beans	3kg	Shs. .... per kg	Shs. 14,400
Rice	..... kg	Shs. 5,000 per kg	Shs. 2,500
Milk	250ml	Shs. 3000 per litre	Shs. ....
Bread	2 loaves	Shs. .... per loaf	Shs. ....
Total expenditure			Shs. 28,650



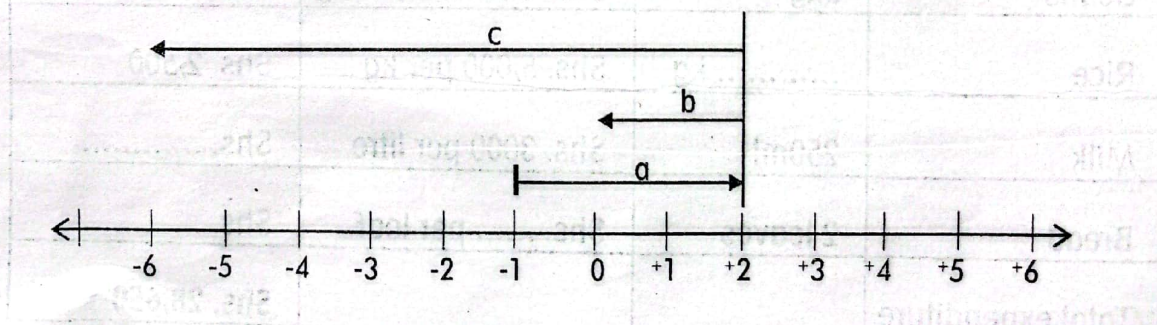
29. In the figure below, length EF is 24m, ABE is an Isosceles triangle and ABCD is a rectangle. The two figures are attached to a semi-circle as shown below. Study it carefully and answer the questions that follow.



- (a) If the area of the semi-circle is  $77\text{m}^2$ ; calculate the perimeter of the rectangle.  
(Use  $\pi = \frac{22}{7}$ ) [4marks]

- (b) Find the length EB. [2marks]

30. Study the numberline below and use it to answer the questions that follow.



- (a) Write the integers represented by; [1mark@]  
 (i) a .....  
 (ii) b .....  
 (iii) c .....



31. (a) Using a ruler, a pencil and a pair of compasses only, construct a triangle XYZ where  $XY = 6.7\text{cm}$ , angle  $ZXY = 75^\circ$  and angle  $ZYX = 45^\circ$  and drop perpendicular from Z to meet line XY at M. [5marks]

(b) Measure the height of the triangle XYZ.

[1mark]

32. (a) Workout:  $\frac{24.5 - 13.45}{40.85 + 14.4}$

[3marks]

(b) Jane and Maria have to report to Naggalama Hospital for antenatal care for 12 days and 14 days respectively. They last reported together on Thursday. Find the day on which the two ladies would report together again. [2marks]

\*\*\*THE END\*\*\*



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Answer all questions in this section.

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(a) Calculate the value of K.

[2marks]

(b) If he spends sh. 60,000 on others, calculate his monthly salary.

[2marks]

(c) How much more does he spend on food than rent?

[2marks]

22. (a) Workout:

$$\begin{array}{r} 312_{\text{four}} \\ - 113_{\text{four}} \\ \hline \end{array}$$

[2marks]

(b) Convert  $23_{\text{ten}}$  in base five.

[2marks]

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