



HILLSIDE PRIMARY SCHOOL-NAALYA

PRE-REGISTRATION EXAMINATIONS

2025

MATHEMATICS (Set Three)

Time Allowed: 2 Hours 30 Minutes

Name:

Stream:

Read the following instructions carefully

1. The 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** the working must be done using a blue or black ball-point pen or fountain pen. Diagrams must be drawn in pencil.
4. **Calculators** are not 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 boxes indicated:
"For Examiners' Use Only" and those inside the question paper.

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		
Total		

SECTION A: (02 marks each)

1. Work out: $92 + 28$
2. Write **40294** in words.
3. Find the next number in the sequence below:
1, 4, 9, 16, 25, _____
4. Simplify: $-12 - -7$
5. Draw a Venn diagram showing learners (L) and teachers(T) in a school(S)

6. Work out $(9 \times 150) - (50 \times 9)$ using distributive property.

7. How many $\frac{1}{2}$ kg packets of sugar can be got from 7kg?

8. Subtract: $\frac{2}{3} - \frac{1}{4}$

9. Convert 5.4km to metres

10. Using a ruler, a pencil and a pair of compasses only, construct an angle of 120°

11. How many proper subsets are in a set with 5 elements?

12. Work out $4 - 5 = \underline{\hspace{1cm}}$ (finite 7)

13. Find the Lowest Common Multiple (**LCM**) of 12 and 16.

14. Solve: $7 - 2y = 19$

15. Find the mean of $3k$, $2k+4$ and $k+5$

16. Change 114_{five} to a decimal base.

17. Write 149 in Roman numerals.

18. Simplify: $8p - 4m - 3p + 9m$

19. An examination started at 7:30am and ended at 10:00am. How long did it take?

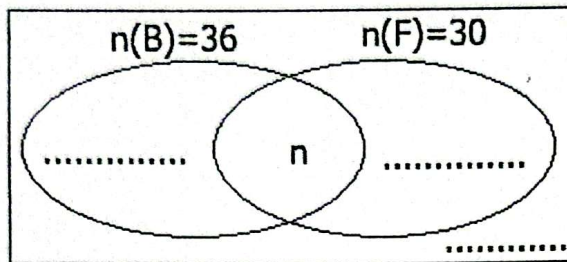
20. Find the value of y in $2^{3y} \times 8 = \frac{1}{512}$

SECTION B: (60 Marks)

21. At a birthday party attended by 63 guests, 36 guests ate beef (B), 30 guests ate fish (F), n guests ate both beef and fish while 2 guests did not eat any.

a) Represent the above information on a Venn diagram. **(03 marks)**

$$n(\epsilon) = 63$$



b) Find the value of n

(02 marks)

c) Find the probability of selecting a guest who did not eat fish.

(01 mark)

22. Given the digits 6, 0, 5 and 2,

a) Write the smallest 4-digit numeral formed using the digits above

(01 mark)

b) Form the biggest 4-digit numeral using the digits above.
(01 mark)

c) Find the sum of the smallest and the biggest numeral formed in (a) and (b) above.
(02 marks)

23. The sum of **three** consecutive even numbers is 60.

a) Find the numbers.
(04 marks)

b) Calculate their range.
(01 mark)

24. a) Work out:

$$\begin{array}{r}
 241_{\text{five}} \\
 + 32_{\text{five}} \\
 \hline
 \end{array}$$

(02 marks)

b) Find the value of k in $42_k = 26_{\text{ten}}$.

(03 marks)

25. Paul went to the shop and bought the following items;

3 litres of milk at sh.2000 each litre.

$2\frac{1}{2}$ kg of rice at sh.4,000 per kg.

2 loaves of bread at sh.4,500 each.

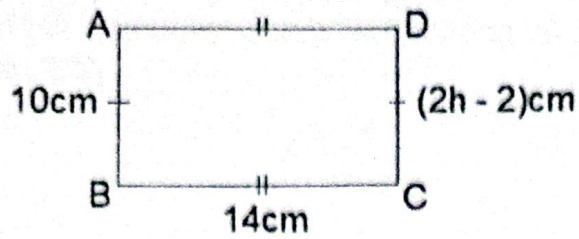
a) Calculate his total expenditure.

(04 marks)

b) Work out his change if he went with 3-ten thousand shilling notes

(01 mark)

26. Below is a rectangle. Use it to answer questions about it.



a) Find the value of h

(02 marks)

b) Calculate the area of the figure.

(02 marks)

c) Work out the perimeter of the figure.

(02 marks)

27. In an interview of 20 questions, 5 points were being awarded for every correct response and 2 points were being deducted for every wrong response. If a contestant got 65 points, how many responses did he fail?
(05 marks)

28. a) Simplify: $\frac{1}{2} - \frac{1}{3} + \frac{1}{4}$ *(02 marks)*

- b) Work out: $\frac{0.18 \times 0.15}{0.5 \times 0.6}$ *(03 marks)*

29. A car left Masaka at 3:00pm and reached Kampala at 5:00 pm.

a) How long did the journey take?

(02 marks)

b) If the car was moving at 65km/hr, calculate the distance between Masaka and Kampala.

(02 marks)

30. The table below shows marks scored by pupils in a test.

Marks	70	k	80	90
Number of pupils	2	4	3	1

a) How many pupils did the test?

(02 marks)

b) Find the value of **k** if the mean mark is 67.

(02 marks)

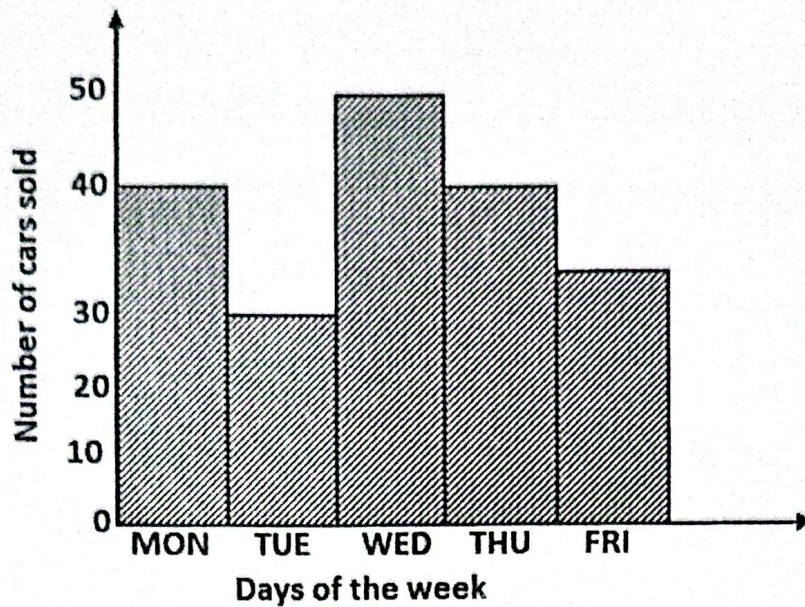
31. a) Using a ruler, a pair of compasses and a pencil only, construct a triangle **QRS** where angle $QRS = 90^\circ$, $QR = 6\text{cm}$ and $QS = 5\text{cm}$

(04 marks)

b) Measure angle SQR

(01 mark)

32. The graph below shows the number of cars sold by Tata Uganda in a week.



- a) On which day was the lowest number of cars sold? *(01 mark)*
- b) Find the range of the cars sold. *(02 marks)*
- c) Calculate the average number of cars sold in a week. *(02 marks)*

END