



HILLSIDE PRIMARY SCHOOL-NAALYA

PRE-REGISTRATION EXAMINATIONS

2023

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. Add: $57 + 43$

2. Write **95048** in words

3. Find the supplement of 75°

4. Solve $3(m+2)=14$

5. The cost of 4 sweets is sh.1200. Find the cost of 9 similar sweets .

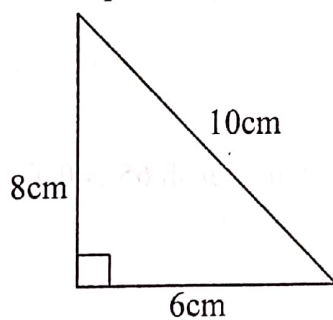
6. Simplify: $9 - 4$

7. Write **249** in Roman numerals.

8. How many $\frac{1}{2}$ litre bottles can be obtained from a 7 litre jug?

9. Draw a Venn diagram to show that all chairs(C) are furniture(F).

10. Find the perimeter of the shape below



11. Express 75% as a simplified fraction.

12. Using distributive property, simplify $(2.7 \times 13) + (2.7 \times 17)$

13. Using a pencil, a ruler and a pair of compasses only construct an angle of 60°

14. Change 124_{five} to base ten

15. Amon bought a toy car at sh.47,000 and later sold it at sh.65,000. Calculate his profit.

16. Find the value of p in $2^p \div 8 = \frac{1}{128}$

17. Find the range of 13, 7, 40, 71 and 25

18. Find the GCF of 24 and 18

19. How many lines of folding symmetry has a rectangle? (Draw and show them)

20. Work out: $\frac{3}{4} - \frac{2}{5}$

SECTION B (60 Marks)

21. At a party attended by 180 guests, $\frac{4}{9}$ were served water and the rest were served soda.

a) What fraction of guests were served with soda? **(02marks)**

b) How many more guests were served with soda than water? **(03marks)**

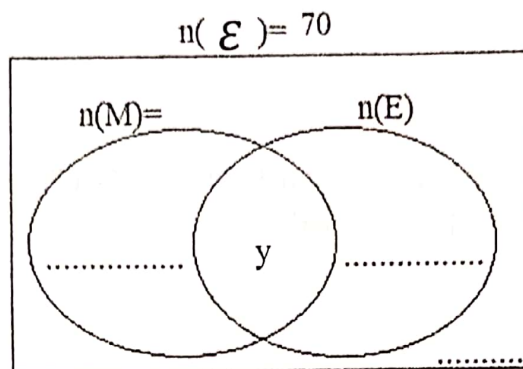
22. The sum of three consecutive odd numbers is 39. Find the numbers.

(05marks)

23. In a class of 70 pupils, 45 like milk (M), 30 like eggs (E), y like both foods while 3 pupils like neither.

a) Complete the Venn diagram below

(03marks)



b) Find the value of y

(02marks)

24. Mary, Grace and Gillian shared some money in the ratio of 3:2:5 respectively

a) If Grace got sh.60,000. Find their total share.

(03marks)

b) How many more money did Gillian get than Grace?

(02marks)

25a) Two bells ring at intervals of 30 minutes and 40 minutes respectively. After how many minutes will the two bells ring together? (03marks)

b) If they start together at 11:25am, at what time will they ring together again? (02marks)

26 a) Work out: $\frac{2}{3} - \frac{1}{2} + \frac{1}{4}$

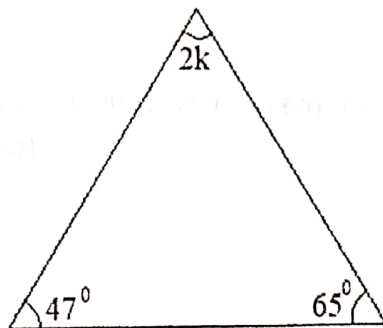
(02marks)

b) Evaluate: $\frac{0.18 \times 2.4}{0.8 \times 0.9}$

(03marks)

27a) Find the value of h in the figure below.

(03marks)



b) What angle is two thirds of its supplement?

(02marks)

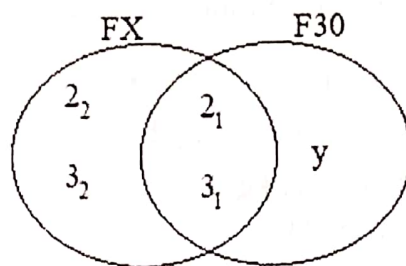
28. A geometry set costs three quarters as much as a book. A pen costs sh.500 less than the cost of a book. If their total cost is sh.6100, find the cost of each item? (05marks)

29. a) Using a ruler, a pencil and a pair of compasses only, construct a rectangle PQRS where line PQ=9cm, line PS=5cm (04marks)

b) Measure angle QPR

(01mark)

30. Study the Venn diagram below and answer the questions that follow;



a) Find the value of y .

(02marks)

b) Find the value of x

(02marks)

c) Find the LCM of Fx and F30

(02marks)

31. Goloba went shopping and bought the following items.

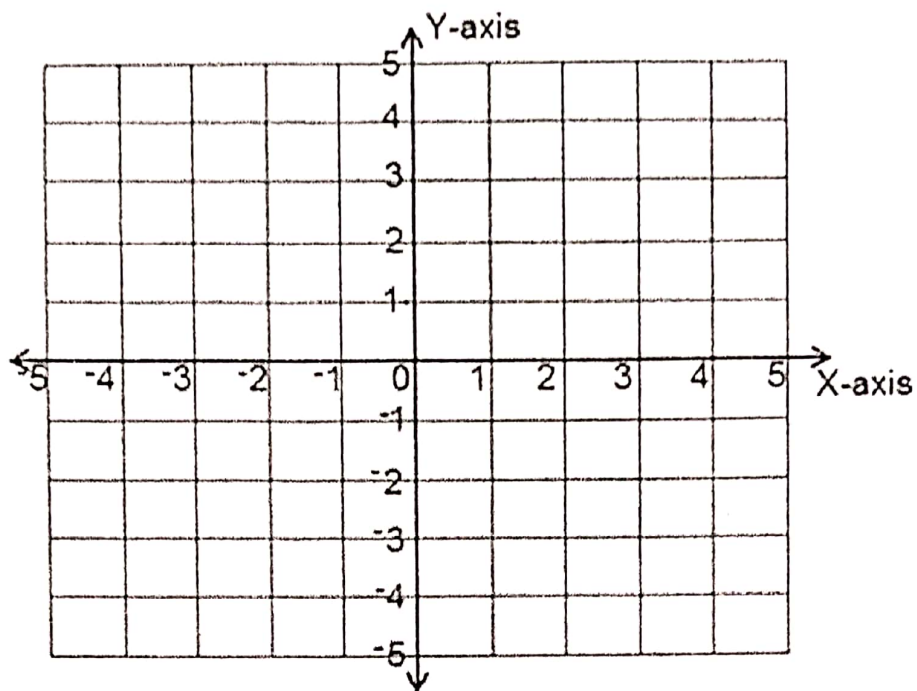
- 3 kg of meat at sh. 10,500 per kg.
- $2\frac{1}{2}$ kg of cooking oil at sh. 1500 for every half litre.
- 250 gm of ghee at sh. 28,000 per kg.
- 2 bunches of matoke at sh. 50,000.

What was his total expenditure?

(05marks)

32. a) Plot $P(0,3)$, $Q(-4,3)$, $R(3,3)$ on the grid graph below;

(03marks)



b) Join the points P to Q, Q to R, R to P and find the area of the figure formed.