NAMILYANGO JUNIOR BOYS SCHOOL

PRE-PRIMARY LEAVING EXAMINATIONS 2024

MATHEMATICS

SET ONE TERM THREE

Time Allowed: *2 Hours 30 Minutes*

	Random No.						Personal No.		
Index No.									

Candidate's Name: _____

Candidate's Signature: _____

SES NO. _____

READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

1. This paper has two sections: A and B.
2. Section A has 20 questions **(40 Marks).**
3. Section B has 12 questions **(60 Marks).**
4. Attempt all questions in both sections. All answers to both sections A and B must be written in the spaces provided.
5. All answers must be written in blue or black ball point pens or ***ink***. Only diagrams and graph work must be done in ***pencil***.
6. Unnecessary ***alteration*** of work will lead to loss of marks.
7. Any ***handwriting*** that cannot be easily read may lead to loss of marks.
8. Do not fill anything in the boxes indicated:

"FOR EXAMINER'S USE ONLY"

For Examiner's Use Only;

Qn No.	MARKS	INITIALS
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
Total		

Please turn over

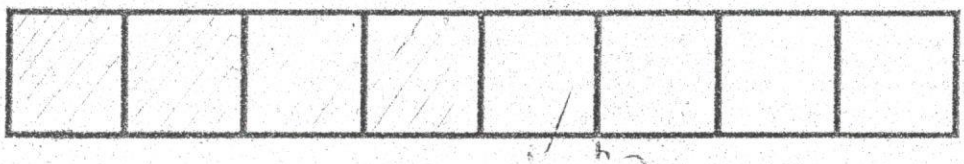
SECTION A: 40 MARKS

Attempt **all** *questions in this section.*

Questions **1** to **20** carry **2** marks each.

1. **Work out:** 65 + 43

2. **Shade** $\frac{4}{8}$ of the figure below.



3. Write **40,001** in words.

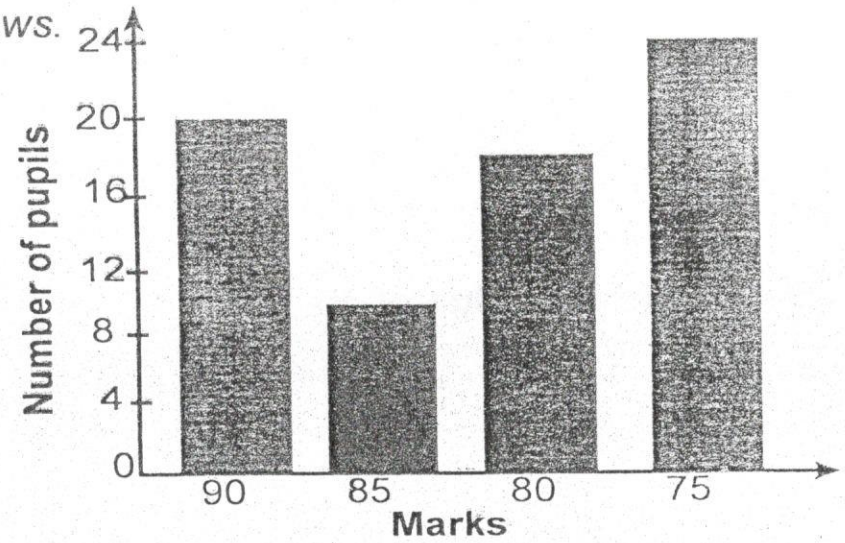
4. Given that set **A**={1,2,3,4,5,6} and set **B**={1,3,5,7,9}.
   List the elements in **A∩B**.

5. Find the next number in the sequence:
   19, 15, 13, 9, 7, _____

12

6. Write **219** in Roman numerals.

The bar graph below shows marks scored by pupils in an examination. *Study the graph and use it to answer the question that follows.*



7. Find the total number of the pupils who scored above 80 marks.

8. Write **0.07050** in standard form.

9. Work out: $6 - (0.5)^2$

10. **Solve:** $t - 3 = 2$(finite 5)

11. Find the perimeter of a **square** whose area is $400m^2$.

12. Given that $2b = 8$, find the **value** of $5b$.

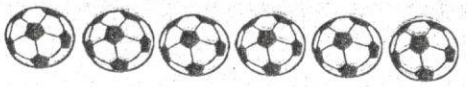
13. One afternoon, Mayo slept for 2 hours and woke up at the time shown on the clock face below. At what time did she go to bed?

14. A **250g** packet of groundnuts costs **sh.500**. How much will a parent pay for packets that weigh **2kg**?

15. Use a protractor to draw an angle of 105^0.

16. **Simplify:** $\frac{1}{2}(2a - 8)$

17. Kato bought a goat for **sh.190,000**. At what price should he sell it in order to gain **sh.45,000?**

18. Given that  represents 30 balls, how many balls are represented by  ?

9. The interior angle of a regular polygon is **135°**. Find the number of sides of the polygon.

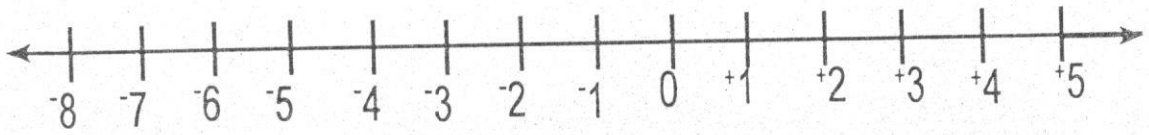
0. Given that $2^m \times 5^n = 200$, find the value of **m** and **n**.

SECTION B: 60 MARKS

Attempt **all** *questions in this section.*

Marks for **each part** *of the question are* **indicated** *in the brackets.*

21.(a) **Work out:** $-4 - {}^{-}7$ using the number line below. *(03 marks)*



(b) Find the solution set that satisfies the inequality below;

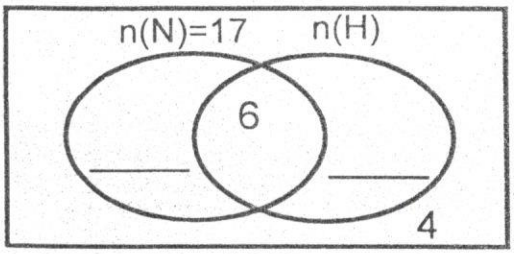
$2<x<7$ *(02 marks)*

22.(a) Using a ruler, a pencil and a pair of compasses only, construct a triangle JKL in which JK=7 cm, angle JKL = 60° and angle KLJ =45°. *(04 marks)*

(b) Measure line KL. *(01 mark)*

Out of a group of fishermen, 17 use nets (N), (2k – 3) use hooks (H) only, 6 use both nets and hooks, and 4 use other fishing equipment.

a) Complete the Venn diagram below using the information given above. *(02 marks)*



(b) If **24** fishermen use only one of the mentioned fishing equipment;

i) find the value of **k**. *(02 marks)*

ii) find the **total** number of the fishermen in the whole group. *(02 marks)*

The number of cows on Gateete's farm decreased in the ratio of **2:5** after selling 36 cows.

(a) **Calculate** the total number of cows that Gateete's farm had before selling. *(02 marks)*

(b) Find the number of cows that **remained** on the farm. *(02 marks)*

25.(a) **Solve** for p: $\frac{1}{2}p + 3p = 21$ *(02 marks)*

(b) **Solve** for y: $3(y+1)-2(4-y)= 25$ *(03 marks)*

26.Shamim went shopping and bought the fruits shown in the table below:

Item	Quantity	Unit cost	Amount
pineapples	2 pineapples	Sh.4,200 each pineapple	sh.8,400
oranges	6 oranges	Sh._____for 3 oranges	sh.30,000
apples	_____apples	Sh.1,500 an apple	sh._____
Total expenditure			sh.42,900

(a) Complete the table *(04 marks)*

(b) If Shamim remained with **Sh.5,000**, how much did she have at first? *(02 marks)*

27. In a class, there are 40 girls and 60 boys. One Friday, $\frac{1}{4}$ of the were absent and $\frac{2}{3}$ of the boys were present.

(a) Find the number of pupils who were absent that Friday. *(03 marks)*

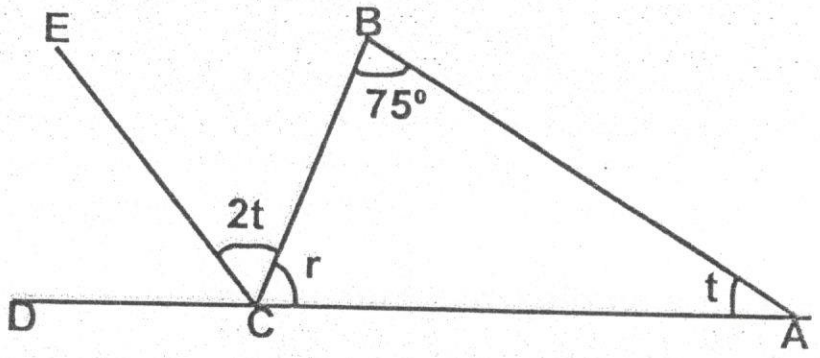
(b) Find the fraction of the whole class that was present that Friday. *(02 marks)*

28. The radius of a wheel of a wheelbarrow is $(x - 4)$ cm and its di ameter is $(x + 10)$ cm;

(a) Find the **value** of **x**. *(02 marks)*

(b) If the wheelbarrow is pushed through a distance of 440 metres, find the number of revolutions it will make. *(03 marks)*

29. In the figure below, AD is a straight line, angle ECD = angle ECB and ABC is a triangle. *Use it to answer the questions that follow.*



Find the size of;

(a) angle t. *(02 marks)*

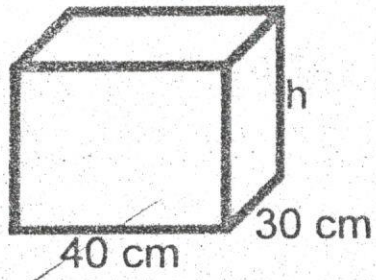
(b) angle r *(02 marks)*

30. Teo left her home at 7: 45 a.m and drove at an average speed of 10 metres per second for 30 minutes to her work place.

(a) At what time did Teo arrive at her work place? *(02 marks)*

(b) Calculate the **distance** in kilometres between Teo's home and her place of work. *(03 marks)*

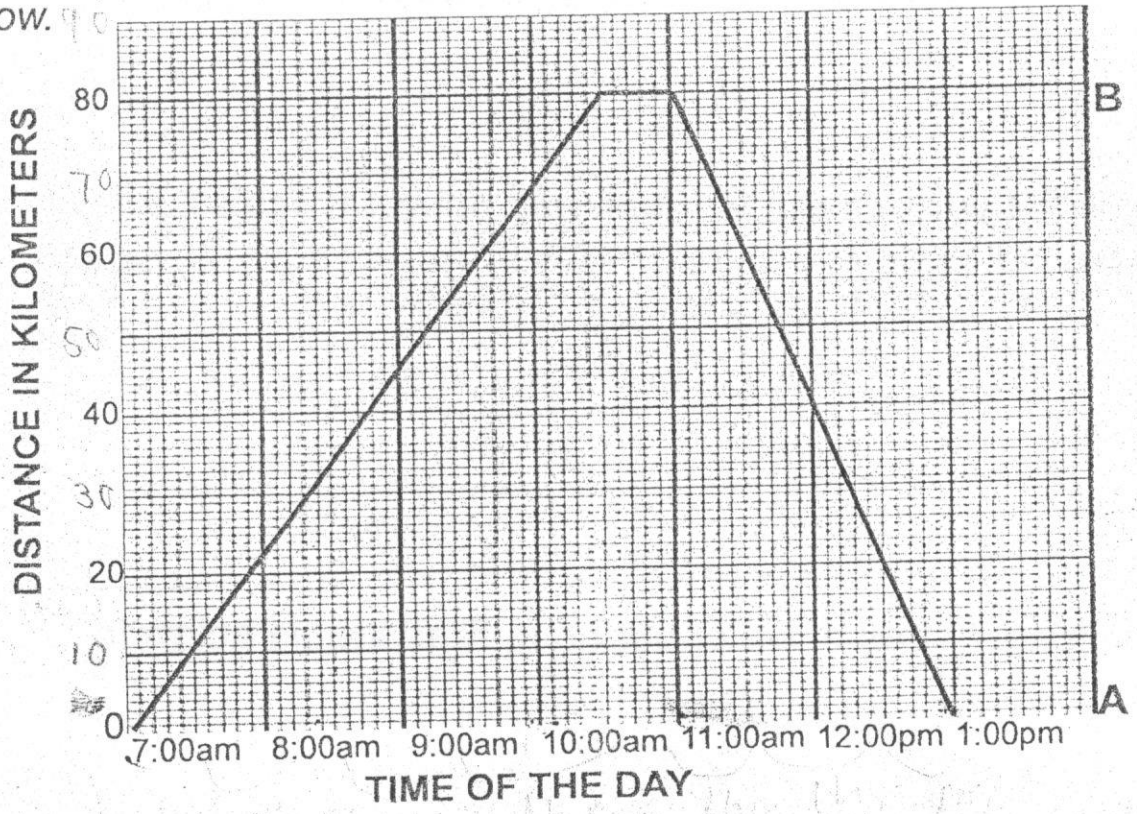
31. A tap pouring 7 litres of water per hour, filled the tin below in 12 hours.



(a) Find the **capacity** of the tin in litres. *(02 marks)*

(b) Calculate the **height** (h) of the tin in cm. *(03 marks)*

32. The travel graph below shows a journey by bus from town **A** to town **B** and back to town **A** . *Use it to answer the questions that follow.*



(a) Find the total time taken by the bus over the entire journey.

(01 mark)

(b) How much longer did the bus take to travel from town **A** to town **B** than it took to travel from town **B** to town **A**? *(02 marks)*

(c) Calculate the average speed of the bus over the whole journey.

(02 marks)