HILLSIDE PRIMARY SCHOOL- NAALYA
P.7 TERM I 2024

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Candidate's Name:

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Candidate's Signature:

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School Name:

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Read the following instructions carefully:

1. This paper has two sections: A and B. Section A has 20 questions and section B has 12 questions.
2. Answer all the questions. 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 ink. Any work done in pencils other than graphs and diagrams will not be marked.
4. No calculators are allowed in the examination room.
5. Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
6. Do not fill anything in the table indicated: "**for examiners' use only**" and boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
QN. NO	**MARKS**	**EXR'S NO.**
1-5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 -32		
TOTAL		

SECTION A

1. **Subtract: 305 – 24**

2. The cost of **9** pens is **1800/=**.
   What is the cost of **3** similar pens?

3. Find the L.C.M of **8** and **9.**

4. Mugema will celebrate her birth day next week. What is the probability that she will celebrate it on a day that starts with letter **"T"**?

5. A bus carries **59** passengers per trip. How many passengers will the bus carry if it makes **12** trips?

6. Find the area of the circle whose radius is 7cm. (Take $\pi = \frac{22}{7}$)

7. Musoke borrowed **Shs. 100,000** from his club to be returned after **3** months at a simple interest of **5%** per month.
   Find the simple interest.

8. Two angles are supplementary. If one of them is 28^0, find the other angle.

9. Work out:

$$\begin{array}{r} 1\ 0\ 1\ 0_{\text{two}} \\ +\ \underline{\ \ 1\ 1\ 1_{\text{two}}} \\ \hline \end{array}$$

10. Set **K** has **8** subsets. Find the number of elements in set **K**.

11. Find the next number in the sequence.

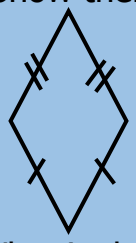
1, 4, 9, 16, 25, _____

12. **Work out: (3 x 5) + (3 x 2)** using the distributive property.

13. Kamulansi sold some sugar as follows.
5kg, 7kg, 6kg, 9kg, 8kg, 6kg, 4kg

Find the median.

14. How many lines of folding symmetry has the shape below. (Show them)



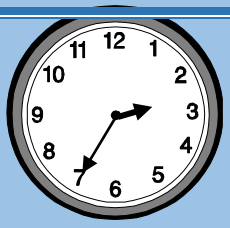
15. What is the product of **0.3** by **0.02**?

16. A square has an area of **25dm**. Find the length of its side.

17. **Simplify: $^{-}9 - ^{-}5$**

18. Using a ruler and a pair of compasses, construct an angle of **30^0**.

19. What is the morning point of time shown on the clock face?



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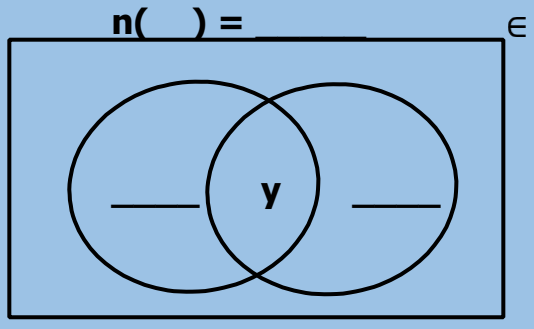
20. Express **0.0046** in scientific notation.

SECTION B

21. In a village of **50** people, **40** grow maize (M), **25** grow beans (B), **y** grow both crops, while **2** do not grow any of the two,

a) Show the information on the Venn diagram below.



(2mks)

b) Find the value of **y**. (2mks)

c) How many people grow beans only? (1mks)

22. Two bells are rung at intervals of 20 and 30 minutes respectively.

a) After how many hours will they ring together again? (3mks)

b) At what time will they ring together again if they were rung at 8:10a.m? (2mks)

23.a) Calculate the area of the trapezium whose two parallel sides are **8cm** and **15cm** with height **8cm** and its slanting side measuring **5cm**. (3mks)

b) Find its perimeter. (2mks)

24. The median of three consecutive counting numbers is **13**.

a) Find the numbers. (3mks)

b) Find the range of the numbers. (2mks)

25. A mother shared **Shs. 72000** among his **3** sons Allan, Jumba and Davis in the ratio of 2:1:3 respectively. How much did each get? (4mks)

26.a) Using a ruler, a pencil and a pair of compasses only, construct a square of side 6cm. (4mks)

b) Measure his diagonal. (1mk)

27. Furaha bought the following items from the market.

- **1½**kg of rice at **Shs. 3000** per kg.
- **2kg** of sugar at **Shs. 3500**.
- **1½** litres of paraffin at **Shs. 2800** per litre.
- **8** oranges at **Shs. 200** per orange.

If Furaha remained with only **Shs. 500**, find the total amount of money she had at first. (5mks)

28. Ten boys did a mathematics test and got the following marks.

60%, 40%, 60%, 10%, 65%, 40%, 60%, 80%, 70% and 50%

i) Find the;
Range (1mk)

ii) median mark

(2mks)

iii) mean mark

(3mks)

29.a) **8** men can complete a piece of work in **10** hours. How many hours will **20** men take to complete the same work at the same rate?

(3mks)

b) **5** books were sold at **Shs. 25000**. Find the cost of **7** similar books.

(2mks)

30. If x = 4, y = 2 and p = 3;

a) Find **xyp**

(1mk)

b) Work out

i) **xy − p**

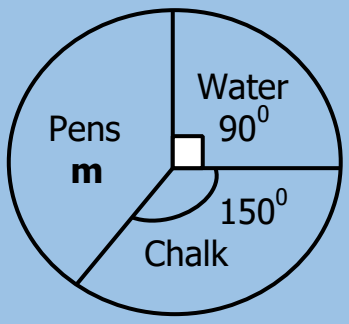
(2mks)

ii) $\frac{\mathbf{xp}}{\mathbf{y}}$ (2mks)

31. Tap A can fill the tank in **6** minutes and tap B can fill the same tank in **3** minutes.
How long will both taps take to fill the tank if they are opened at the same time?

(5mks)

32. The chart below shows how a school spent **73000/=.**



i) Find the value of **m**.

(3mks)

ii) How much did the school spend on water? (2mks)