

HILL SIDE PRIMARY SCHOOL - NAALYA

P. 7 EXAMINATION SET TWO 2025

Mathematics.

INDEX NUMBER

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NAME: _____

Signature: _____

FOR EXAMINER'S USE ONLY

Stream _____

Date _____

A	
B	
TOTAL	

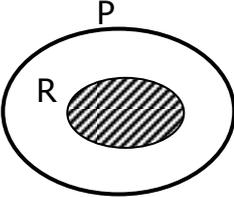
Read the following instructions carefully:

1. This paper is made up of section A and B.
2. Section A has 20 short answer questions (40 marks).
3. Section B has 12 questions (60 marks).
4. All answers to both section A and B must be written in the spaces provided.
5. All answers must be written in blue ink and diagrams should be drawn in pencil.
6. Any handwriting that cannot easily be read will lead to loss of marks.
7. Unnecessary alteration of work may lead to loss of marks.
8. No calculators are allowed in the examination room.

TEACHER'S COMMENT	
SIGNATURE	
Date:	

SECTION A:40 MARKS

Questions 1 to 20 carry two marks each

1.	Use repeated addition to work out 3×6	2.	Write 36500 in scientific notation.
3.	Work out: $2 - 3 = \underline{\hspace{2cm}}$ (mod 5)	4.	Find the next number in the sequence below. 1, 3, 6, 11, 18, <u> </u> , <u> </u>
5.	The complementary angle of $(2x-20)^\circ$ is 40° . Find the value of x.	6.	If $m = 4$, $n = -3$ and $k = 6$. Find the value of $m^2 + n^2$.
7.	Work out: $-4 - +5$	8.	Using a ruler and a pair of compasses only, construct an angle of 30° .
9.	Work out: $123_{\text{five}} + 134_{\text{five}}$	10.	Describe the unshaded part in the Venn diagram below. 

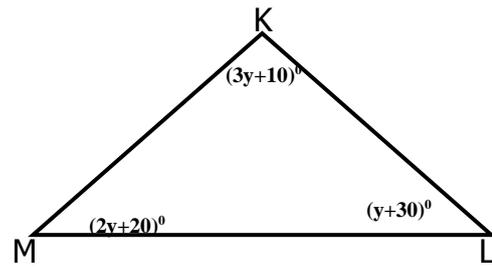
11.	Find the square root of 144.	12.	Increase sh.3000 by 20%
13.	Find the median of 24, 16, 25, 33, 20 and 15.	14.	Work out the circumference of a circle whose diameter is 14cm. (use π as $\frac{22}{7}$)
15.	There are 16 subsets in set Q. How many elements are in set Q?	16.	Calculate the GCF of 6 and 9.
17.	Work out: $\frac{3}{4} \div \frac{1}{4}$	18.	Write XLIV in Hindu Arabic numerals.
19.	Solve: $3k - 6 = 3$	20.	Express 5400m^2 as hectares.

SECTION B: (60 MARKS)

21. In a class of 50 pupils, 20 like Mathematics(M) only, 15 like English(E) only, K like both subjects while 5 pupils do not like any of the two subjects.
a) Draw a Venn diagram and represent the above information. (3mks)

b) Find the number of pupils who like Mathematics. (2mks)

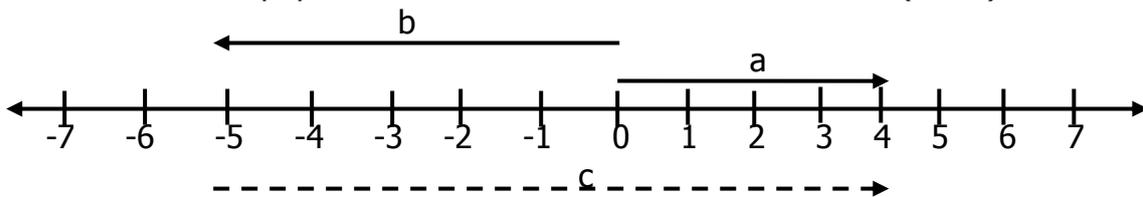
22. Use the figure below to answer the questions that follow.



a) Find the value of y. (3mks)

b) Work out the size of angle KLM. (2mks)

23. Use the number of pupils who like Mathematics. (2mks)



a) Write the integer represented by the arrow on the number line above. (1mk@)

i) a = _____

ii) b = _____

iii) c = _____

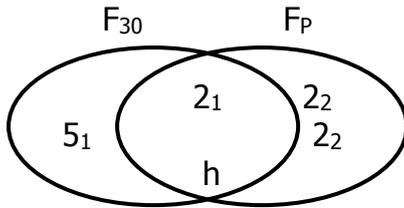
b) Write down the mathematical statement shown on the number line above. (1mk)

24. The table below shows the marks scored by some pupils in the Mathematics test. Use it to answer the questions that follow.

Marks	80	70	60	90
Number of pupils				

	<p>a) How many pupils did the test? (2mks)</p> <p>b) Work out the range. (2mks)</p> <p>c) Calculate the mean mark. (2mks)</p>
25.	<p>The sum of 3 consecutive even numbers is 66. If the first number is p, find the product of the largest and the smallest numbers. (4mks)</p>
26.	<p>In a village of 3000 people, 40% of them are males and the rest are females.</p> <p>a) Find the percentage of females in the village. (2mks)</p> <p>b) If $\frac{1}{6}$ of the males are boys, how many boys are there in the village? (2mks)</p> <p>c) How many more females than the males are in the village? (2mks)</p>

27. Study the Venn diagram below and use it to answer the questions that follow.



a) Find the value of h (2mks)

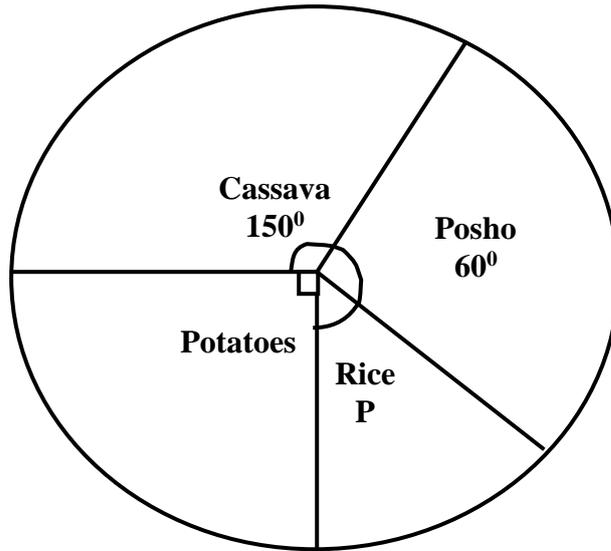
b) Work out the value of P . (2mks)

c) Calculate the LCM of P and 18. (2mks)

28. a) Using a ruler and a pair of compasses only, construct a triangle KPC where angle $KPC = 90^\circ$, line $PC = 8\text{cm}$ and line $PK = 6\text{cm}$ (4mks)

b) Measure line KC (1mk)

32. The pie – chart below shows the type of food liked by pupils in Owokowoko primary school. Study it carefully and answer the questions that follow.



- a) Work out the value of p in degrees. (2mks)
- b) If there are 840 pupils in the school, how many more pupils like cassava than potatoes? (3mks)

End