VISION EXAMINATION BOARD

PRIMARY SEVEN ENTRY EXAMINATION

MATHEMATICS, 2025

Time: 2 hours 30 minutes

NAME: _____

District _____

Date _____

FOR EXAMINER'S USE ONLY

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.**

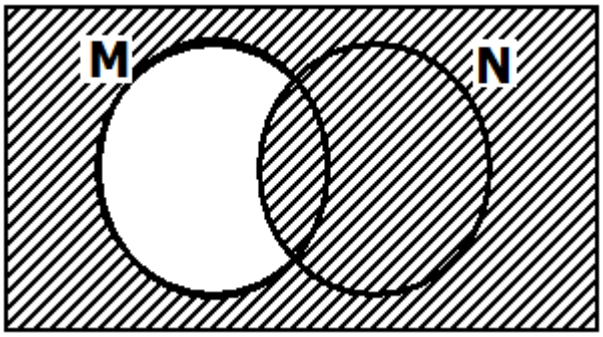
PARENT'S COMMENT	
SIGNATURE	
Date:	

SECTION A (40 marks)

1. Work out: 13 + 12 =

2. Write "forty thousand sixteen" in figures.

3. Name the shaded region in the Venn diagram below.



4. A trader sold an article for sh 37,600 making a profit of sh 2,600. How much did the trader buy the article?

5. If a = 2 and b = 3, find the value of 2a + b.

6. Find 30% of sh. 60000

7. Simplify: $^{-}8 - {}^{+}3$

8. Find the next number in the sequence: 7, 8, 11, 17, 27, _____

9. What afternoon time is shown on the clock face below?

10. Change 800ml to litres.

11. Given that PFx = $\{2_1,\ 2_2,\ 3_1,\ 3_2,\ 5_1\}$. Find the value of x.

12. Work out the median of the following scores: 70 , 43 , 56 , 84 and 68.

13. Given set W = {a, b, c}. List all the subsets of set W.

14. Write 934 in Roman numerals.

15. Use distributive property to work (71 ÷ 9) – (17 ÷ 9)

16. The ratio of boys to girls in a class is 7: 8. Find the number of boys in the class of 120 pupils.

17. Using a pair of compasses, ruler and a pencil only, construct an angle of 60^0 in the space provided below.

18. What should be added to 2k – 3 to get 5k – 8?

19. Today is Thursday, What day of the week will it be after 67 days?

20. Complete the table below.

Tallies	𝍸 𝍸 |	.....
Marks	.....	**9**

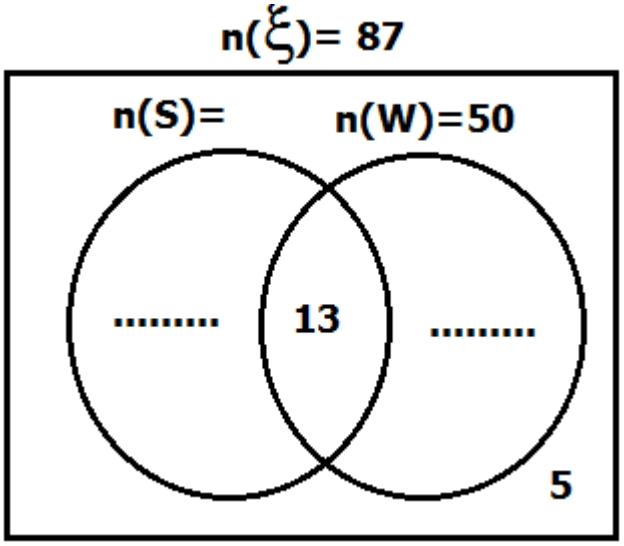
SECTION B: (60 MARKS)

21(a) What is the quotient of the place value of 7 in and the value of 4 in the number 67348? **(3 marks)**

(b) Change 11011_{two} to decimal base. **(2 marks)**

22. At a wedding meeting attended by 87 members, 50 members took water (W), p members took soda (S), 13 took both water and soda while 5 took neither of the two drinks.

(a) Use the above information to complete the Venn diagram below. **(2 marks)**



(b) How many members took soda only? **(3 marks)**

23(a) Simplify: $^{2}/_{3} \div 1\ ^{7}/_{9}$ of $^{3}/_{4}$ **(2 marks)**

(b) Work out: $\frac{0.8 \times 0.6}{0.12}$ **(3 marks)**

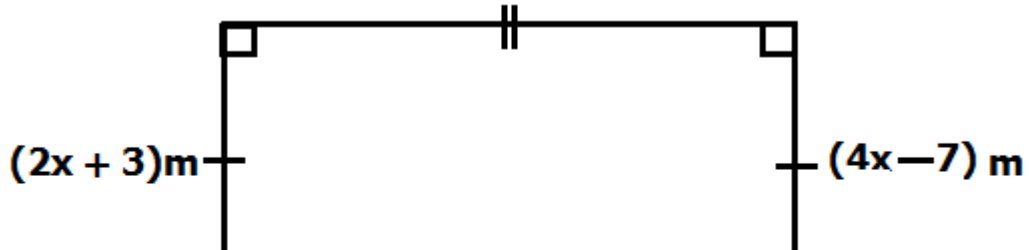
24. The table below shows Matama's shopping list.

(a) Complete the table. **(4 marks)**

ITEM	**UNIT COST**	**AMOUNT**
3kg of sugar	*Sh 3400 per kg*	*sh _____*
2 ½ bars of soap	*sh ____ per bar*	*sh 9000*
___ kg of rice	*sh 3200 per kg*	*sh _____*
12 tomatoes	*sh every 3 tomatoes*	*Sh 5600*
TOTAL EXPENDITURE		*Sh 27,200*

(b) If Matama went with sh 50,000, how much money did she remain with? **(1 mark)**

25. **Study the figure below and use it to answer the questions that follow.**



(a). Find the value of x. **(2 marks)**

(b) Calculate the area of the figure. **(3 marks)**

26. Kamurasi left home at 2 : 47 p.m. riding at a constant speed of 20km/hr and reached town at 4 : 32 p.m.

(a) Calculate the distance between Kamurasi's home and the town. **(3 marks)**

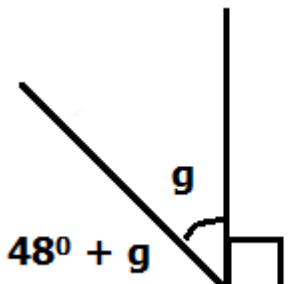
(b) If a motorist covers the same journey in 30 minutes, calculate the speed of the motorist. **(2 marks)**

27(a) The LCM of two numbers is 420. Their GCF is 12. If one of the numbers is 84, find the other number. **(2 marks)**

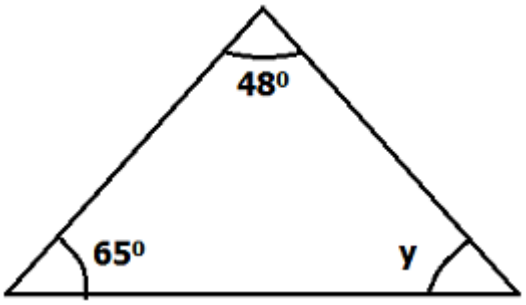
(b) Work out the square root of 196. **(2 marks)**

28(a) The complementary angle of $3k - 10^0$ is $k + 20^0$. Find the value of k. **(2 marks)**

(b) On the diagram below, find the value of **g** in degrees. **(2 marks)**



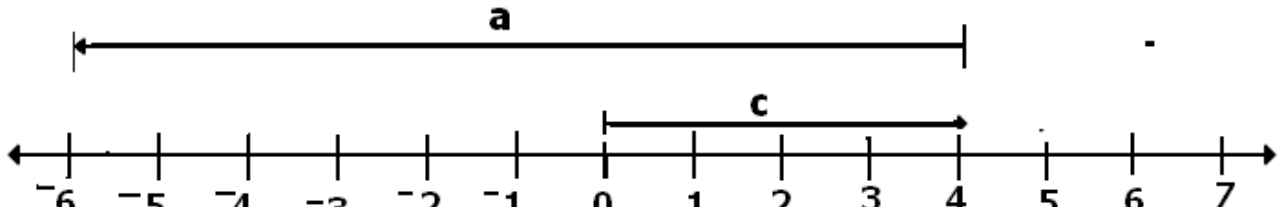
(c) Find the size of angle y. **(2 marks)**



29(a) Solve the equation: $5(n - 3) - 3(n - 7) = 8$ **(3 marks)**

(b) Solve and write the solution set for: $^{+}1 < y + 3 \leq 6$ **(3 marks)**

30. **Use the numberline below to answer the questions that follow.**



(a) Write the integers represented by the arrows: **(1 mark each)**

(i) a: _____ (ii) b: _____ (iii) c: _____

(b) What mathematical sentence is illustrated on the numberline above. **(1 mark)**

31. Amuge used $^{1}/_{4}$ of her salary on food, $^{5}/_{9}$ of the remaining amount on rent and saved the rest. If she saved sh.240,000:

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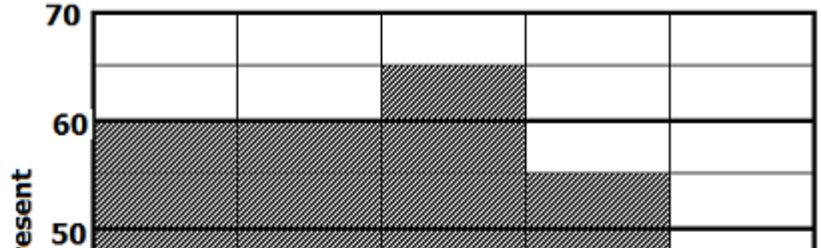
(a) Find the fraction of the income she saved. **(3 marks)**

(b) Calculate her salary. **(2 marks).**

32. **The graph below shows the attendance of students in a class of 67 students in a certain week.**



(a) On which days was the number of children the same? **(2 marks)**

(b) Find the number of students who were absent on Friday. **(2 marks)**

(c) Work out the average attendance of the students in the whole week. **(2 marks)**