THE E-LEARN EXAMINATIONS BOARD

PRE - PLE SET NINE / TEN

2025

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.	Random No.						Personal No.		

Candidate's Name: .....

Candidate's Signature: .....

School Name: .....

Read the following instructions carefully:

1. Do not write your **district name** anywhere on this paper.
2. This paper has **two** sections: **A** and **B**. Section **A** has **20** questions and section **B** has **12** questions. The paper has **12 printed pages**.
3. Answer **all** questions. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** the working **must** be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than graphs and diagrams will **not** be marked.
5. **No calculators** are allowed in the examination room.
6. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
7. 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		

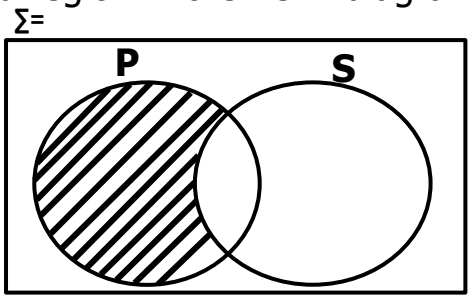
SECTION A: 40 MARKS

*Answer **all** the questions in this section.*
*Questions **1** to **20** carry **two** marks each.*

1. Work out: 55+144

2. After the death of His Holiness Pope Francis this year, "One hundred thirty-eight" cardinals came on board to elect the new Pope amongst them. Pope LEO XIV was elected as a new Pope. Write the number of cardinals in Hindu-Arabic numerals.

3. Describe unshaded region in the Venn diagram below.

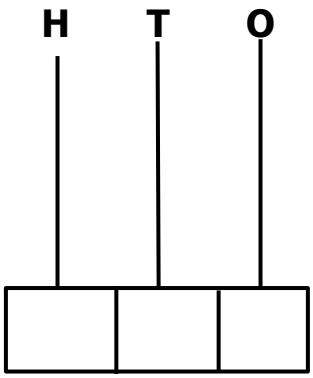


4. Round off 439.975 to one decimal place.

5. Which number has been expressed in standard form to give 6.37×10^{-4}

6. By dividing, prove that 2025 is an ordinary year.

7. Show and represent the square of 15 on the abacus below



8. Find the value of the unknown in the figure below.

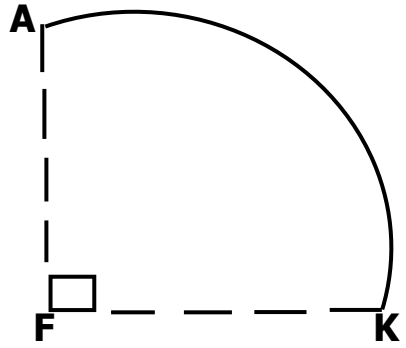
9. Express 0.666... as a rational number.

10. Rhamophous was born in 14BC and died in 37AD. How old was he?

11. Solve for C: $\frac{c^2}{2} - 2 = 6$

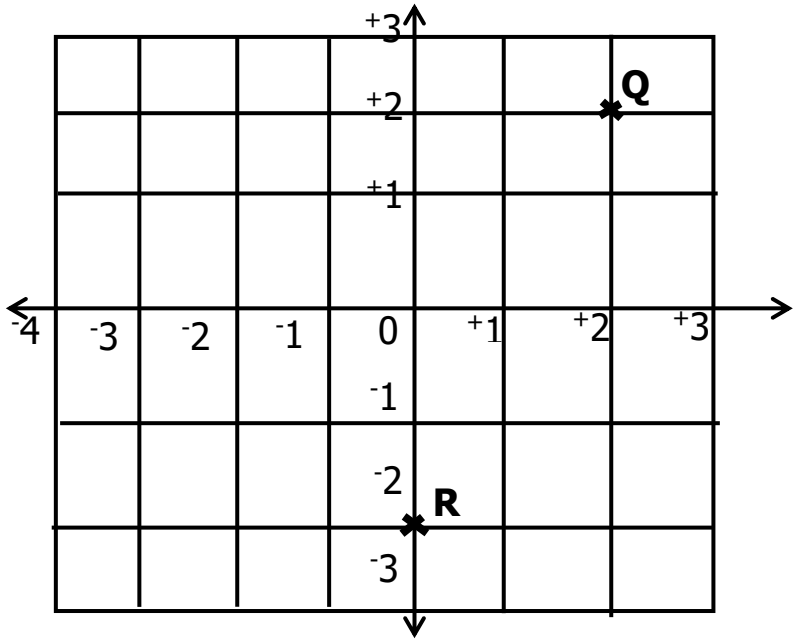
12. The average age of 8 pupils at North Road Primary School is 15 years.
If two pupils whose ages are 10 years and 14 years were taken to another school, find the average age of the remaining pupils.

13. The length of the arc drawn below is 11cm. Calculate its radius.



14. While returning the scripts for marking at the centre, the head teacher of a certain school from Mbarara City after covering ¼ from the whole journey, he received a phone call from the class chairperson to come back for the portal code number and other scripts. How long was the journey if 144km remained to reach the centre?

15. Write the co-ordinates of the point **Q** and **R** on the grid below.



16. Workout: $1\frac{1}{2} \div \frac{1}{2}$ using repeated subtraction.

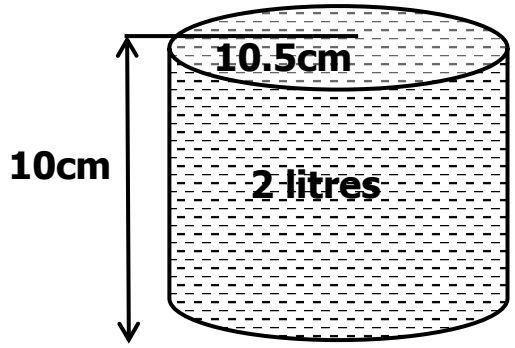
17. Musiime sent her child to the shop on Monday last week to buy items using different denominations in Uganda currency. Study the table below and complete it correctly.

FEATURE ON THE NOTE	NUMBER OF NOTES	AMOUNT
A fish	_____	sh. 20,000
_____	20	sh. 400,000

18. In a certain examination body, the head of mathematics department briefed his fellow workers on how to assess and examine candidates in the special PLE mock exams. He took $7\frac{1}{4}$ hours and the briefing ended at 6:45p.m. At what time did it start?

19. Workout: 2 ÷ 3 (mod 5) using clock arithmetic.

20. Below is a cylindrical cup full of milk study it carefully and answer the question that follows.



Turn Over

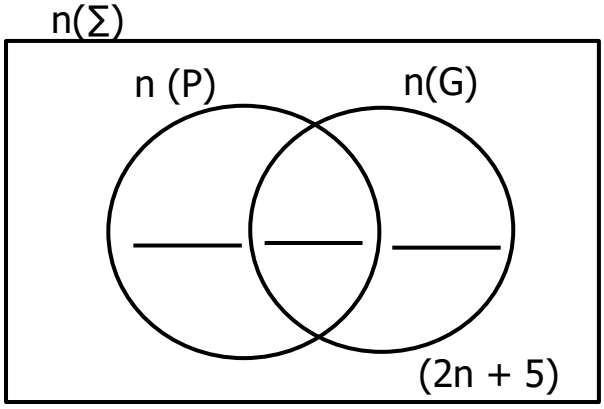
Find the area of its curved surface in centimetres.

SECTION B: 60 MARKS

*Answer **all** the questions in this section.*
Marks for each question are indicated in brackets

21. In a group of 100 farmers in the village, $\frac{1}{4}$ of them like only Poultry farming (P) and two fifths like Goat rearing (G) only.

(a) Complete the Venn diagram if **n** farmers like both practices and 2n+5 like neither of the two practices. *(03 marks)*



(b) If the farmers who like only poultry farming are equal to those who like neither.
Find the value of **n**. *(01 marks)*

(c) What is the probability of choosing a farmer randomly who did not practice either poultry farming or goat keeping? *(02 marks)*

22. Primary seven pupils of Ebenezer Junior School were told to form mathematics discussion groups by their subject teacher in order to practice different competences. When they formed groups of sevens, 3 remained and when they formed groups of 8s, 5 remained. 19 boys were in the class. In groups of 9, none remained.
Find the number of girls participated in the discussion. *(05 marks)*

23. Below is Mr. Mutesasira's trading prices in a certain district who is a business man. Study it and answer questions that follow.

ITEM	BUYING PRICE	SELLING PRICE
1KG OF COFFEE	sh. 3100	sh. 3550
1KG OF G. NUTS	sh. 2000	sh. 2210
A BUNCH OF BANANA	sh. 21000	sh. 25500
1KG OF BEANS	sh. 2300	sh. 2450
1KG OF MAIZE	sh. 1150	sh. 1250

(a) Mr.kamanzi bought all items above from Mr.Mutesasira, how much money did he pay? *(02 marks)*

(b) Mukadde Natalia sold 5kg of coffee, 2kg of gnuts, 5kg of maize and 2 bunches of banana to Mr. Mutesasaira. Find the total cost received by the seller. *(03 marks)*

(c) Majorine took 12 kg of beans to him. How much money was she given? *(01 mark)*

Turn Over

24. In a Prison, $\frac{2}{3}$ of the ladies are Kenyans and $\frac{1}{6}$ of the Gentlemen are Tanzanians, the percentage of men in the prison is 30% and the prison has 774 prisoners who are Kenyans. If the prison contains only Kenyans and Tanzanians, find the total number of prisoners in the prison. *(05 marks)*

25. (a) Using a well-sharpened pencil, a ruler and a pair of compasses only, construct a rhombus SURE in which SR = 10cm and UE = 24cm. *(04 marks)*

(b) Calculate the area of the figure. *(02 marks)*

26. The timetable below shows how yy bus travelled from Kampala to Mbaale city. Study it carefully and answer questions that follow.

Town	**Arrival**	**Departure**
Kampala bus park		10 : 30p.m.
Mukono	11 : 45p.m.	12 : 15a.m.
Buikwe	1 : 05a.m.	1 : 45a.m.
Kamuli	2 : 15a.m.	2 : 15a.m.
Mugholi	3 : 35a.m.	4 : 12a.m.
Mbaale bus park	5 : 48a.m.	

(a) At what time did the bus reach Buikwe? *(01 mark)*

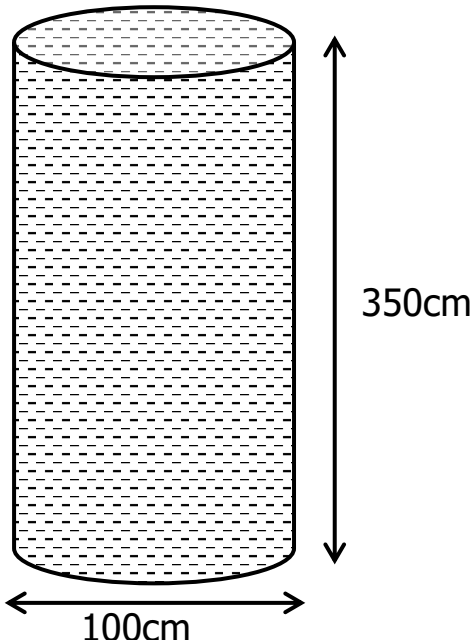
(b) Express the bus' departure time from Mukono in 24 hour clock. *(01 mark)*

(c) How long did the bus take in stopovers for the whole journey? *(02 marks)*

(d) If the journey costs shs.33500 on one route for each passenger, Amira and her dad
Quarish travelled from Kampala and then back, how much did they spend? *(02 marks)*

27. The ratio of the interior angle to its exterior angle of a regular polygon is 3:2 respectively. Name the polygon. *(02 marks)*

28. Below is Peter's tank which has a diameter of 100cm.it is 350cm high, it contains water to the height to $\frac{4}{5}$ of the height of it. How many litres of water should be added to fill the tank. $\left[\text{Take } \pi = \frac{22}{7}\right]$ *(04 marks)*



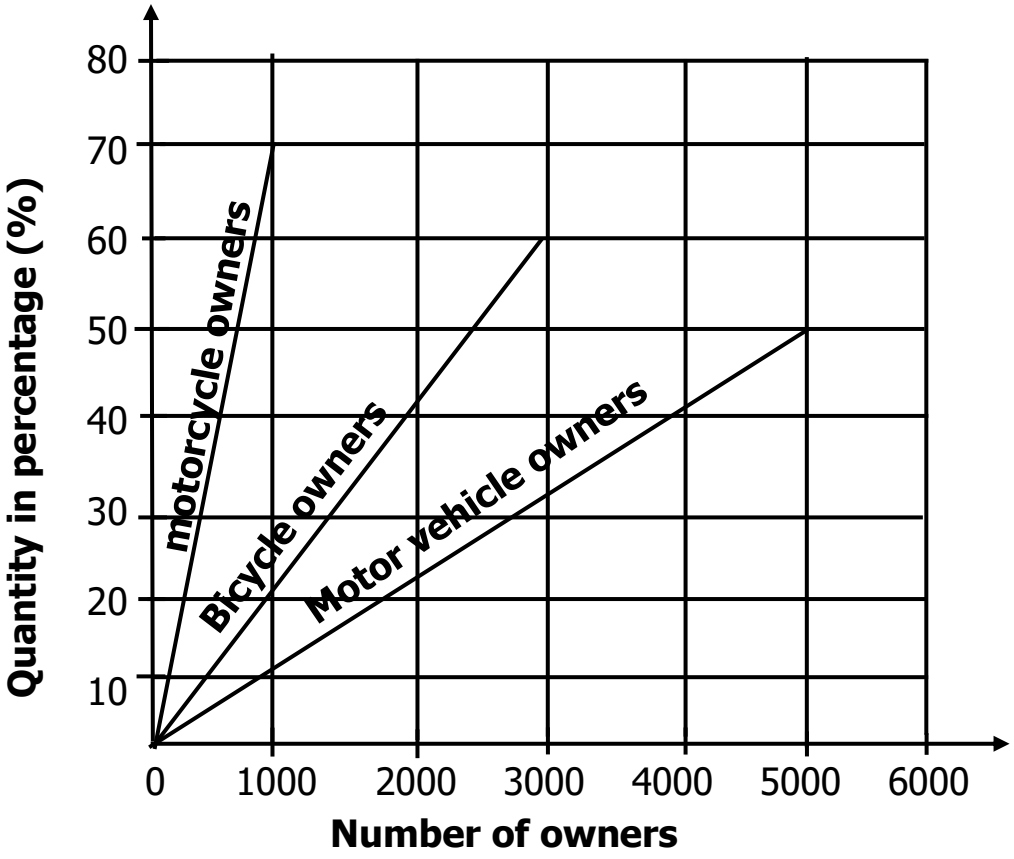
Turn Over

29. Mzee was a milk seller at buhura village in bushenyi ishaka. 48liters of milk were were sold in 3hours. Where by, one more litre of milk was sold more than the previous hour.

(a) How many more litres of milk did he sell on the last hour than the first hour? *(04 marks)*

(b) Find the number of litres he sold in the second hour? *(01 mark)*

30. The graph below shows the means of transport and their owners in Kampala. Study it carefully and answer the questions about it correctly.



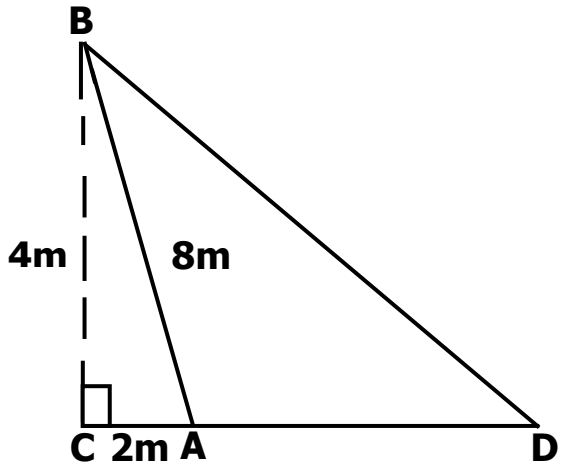
(i) What is the biggest means of transport in Kampala? *(01 mark)*

(ii) Find the number of bicycle owners in Kampala *(02 marks)*

(iii) Workout the average of the owners of transport means according to the Graph. *(02 marks)*

31. (a) In the figure length **CA** is a fifth of **AD**. Calculate the area of the triangle **BAD**.

(03 marks)



(b) $7x$ is equal to 21y. Find the value of y if m= x =p=12. *(01mark)*

Turn Over

32. CEO's home is 120km in the Northeast of HOD's home. PRO's home is 180km on the bearing of 120^0 from HOD's home.
Using a scale of 1cm representing 20km, construct an accurate diagram showing the above information. *(04 marks)*

(i) What is the actual distance between CEO's home and PRO's home? *(01 mark)*

(ii) What is the bearing of HOD's home from PRO's home? *(01 mark)*

END