SUREKEY EXAMINATIONS BOARD

PRIMARY SEVEN PRE-MOCK EXAMINATION

2025

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.	**Random No.**						**Personal No.**		

Candidate's Name: .....

Candidate's Signature: .....

School Name: .....

District Name: .....

Read the following instructions carefully:

1. Do not forget to write your **school** and **district name** 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 **16 printed pages** altogether
3. Answer **all** questions. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** 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 easily be read 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** questions in this Section

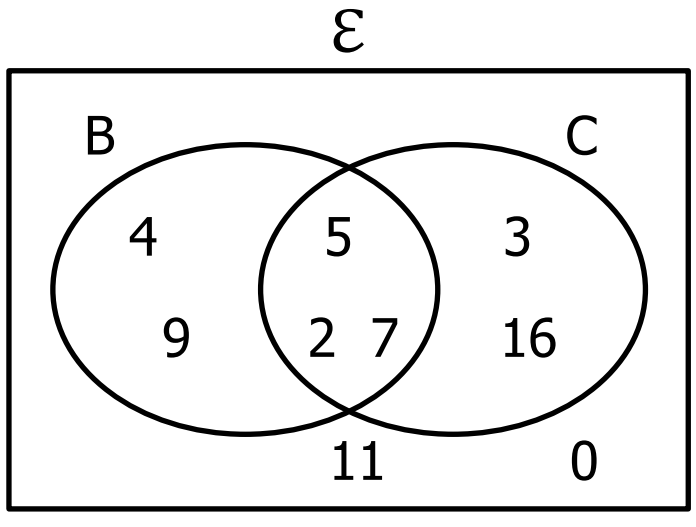
Questions **1** to **20** carry two marks each

1. Workout: $\frac{7}{9} - \frac{2}{9}$

2. Write "Eight thousand, four hundred ninety-four" in number figures.

3. Find the Lowest Common Multiple (L.C.M) of 45 and 30.

4. From the Venn diagram below, write down all the subsets that can be formed from Set $(B \cup C)'$



5. Find the square root of 0.16.

6. Planes land at Entebbe airport every after 25 hours. If they first landed at the same time at 8:00a.m. At what time will their next landing be?

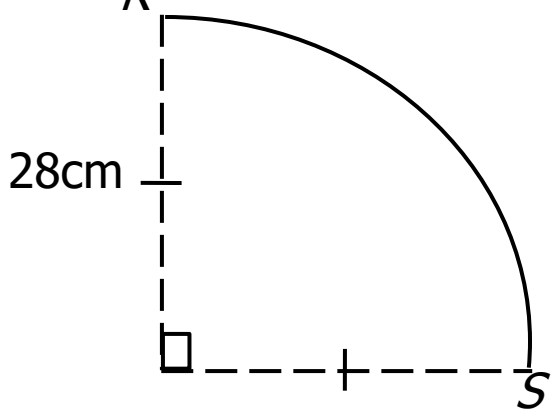
7. Simplify: (4p – 3k) – (p – 3k).

8. In a bookshop, 4 textbooks cost Sh.36,000. Find the cost of 6 similar books.

Turn Over

9. The bearing of the Taxi Park from the Bus Park is 248^0. What is the bearing of the Bus Park from the Taxi Park?

10. A wire of unknown length was folded to form the arc RS below. Find the length of the wire. (Use $\pi = \frac{22}{7}$)



11. Write 645 in scientific notation form.

12. Workout (26 x 12) – (6 x 12) using distributive property.

13. A cyclist was riding at a speed of 5 metres every second. At what speed was he riding in kilometres per hour?

14. Simplify: $m^5 \div m^2 \times m^4$

15. Okello uses $\frac{1}{3}$ of his land for gardening and 60 hectares for animal grazing. Calculate the total area of Okello's land.

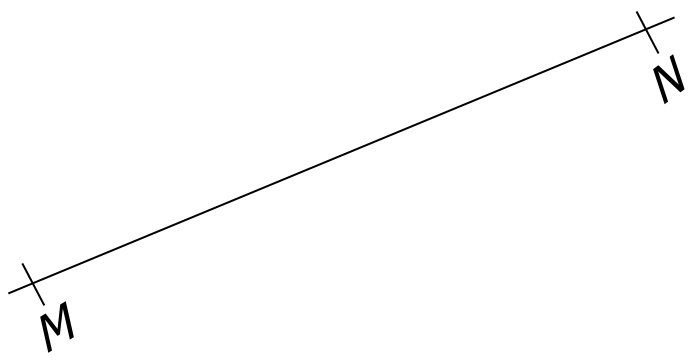
16. Given the equation: $x = y^2$. Use it to complete the table below correctly.

x	9	.....
y	.....	5

Turn Over

17. The amount of maize flour in kilograms prepared for students in a certain school decreased in the ratio 4:7. If the initial quantity was 420kg. find the new quantity.

18. Using a ruler a pencil and a pair of compasses or otherwise, draw a line which is parallel to the line MN below.



19. Use the digits 3, 8, 0 and 7 to form the largest and smallest four digit numbers.

(i) Largest: ……

(ii) Smallest: ……

20. The prime factors of 90 are; 2_1 , 3_1 , g and 5_1. Find the value of g.

SECTION B: 60 MARKS
Answer all questions in this section

Marks for each question are indicated in brackets.

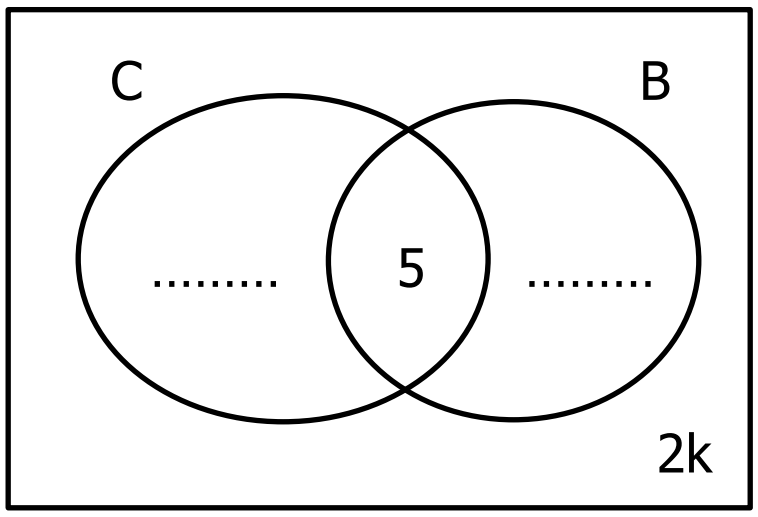
21. (a) Change 234_{six} to base ten. (02 Marks)

(b) Workout:
$$\begin{array}{r} 2\ 0\ 1_{three} \\ -\ 1\ 1\ 2_{three} \\ \hline \\ \hline \end{array}$$
(02 Marks)

22. A farmer borrowed some money from a bank at an interest rate of $5\frac{2}{3}\%$ per month. After 9 months, the borrowed money had generated an interest of Sh.326,400. Find the amount of money the farmer borrowed. (04 Marks)

23. In a class, k pupils like Chocolate (C), 15 pupils like Biscuits (B), 5 pupils like both snacks, 2k pupils don't like any of the two snacks and 13 pupils do not like biscuits.

(a) Use the above information to complete the Venn diagram below. (02 Marks)



(b) Find the value of k. (02 Marks)

(c) How many pupils are in the whole class? (02 Marks)

24. (a) Convert 4000 square centimetres into square metres. (02 Marks)

(b) A cylindrical bucket can hold 2.04 litres of water when completely full. When 0.5 litres of water are removed, the remaining water raises to a height of 10cm. Workout the radius of the bucket.
(Use $\pi = \frac{22}{7}$) (04 Marks)

25. (a) Solve and write the solution set for $6 - 2y \leq 14$. (03 Marks)

(b) Find the value of d that satisfies the equation: (03 Marks)

$$\frac{d + 3}{2} = \frac{11 + d}{4}$$

26. The time table below shows the journey of Nile Star Bus from Kampala to Juba through Karuma, Gulu and Nimule. Study the table below carefully and use them to answer the questions that follow.

Town	Arrival time	Departure time
Kampala	……	6:25a.m
Karuma	11:00a.m	11:15a.m
Gulu	1:35p.m	1:50p.m
Nimule	3:15p.m	3:30p.m
Juba	4:40p.m	……

(a) At what time did the bus leave Nimule for Juba? (01 Mark)

(b) Convert the departure time of the bus at Gulu in the 24-hour clock. (02 Marks)

(c) If the distance from Kampala to Juba is 820km, calculate the average speed of the bus for the whole journey. (03 Marks)

27. (a) Write the place value of 5 in 194.53. (01 Mark)

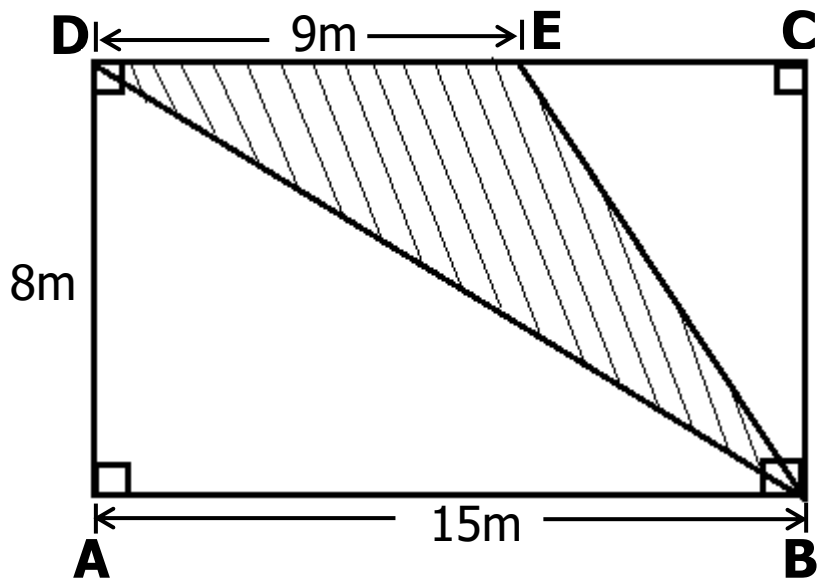
(b) Find the numeral that is expanded to give;
$(8 \times 10^3) + (6 \times 10^2) + (9 \times 10^1) + (7 \times 10^{-2})$ and hence write it in words. (03 Marks)

28. (a) Using a ruler pencil and a pair of compasses only, construct a triangle **RST** where length **RS** = 6.5 cm, angle **TRS** = 135^0 and length **RT** = 4cm. (04 Marks)

(b) Measure the size of angle **RST** = ……**..** (01 Mark)

Turn Over

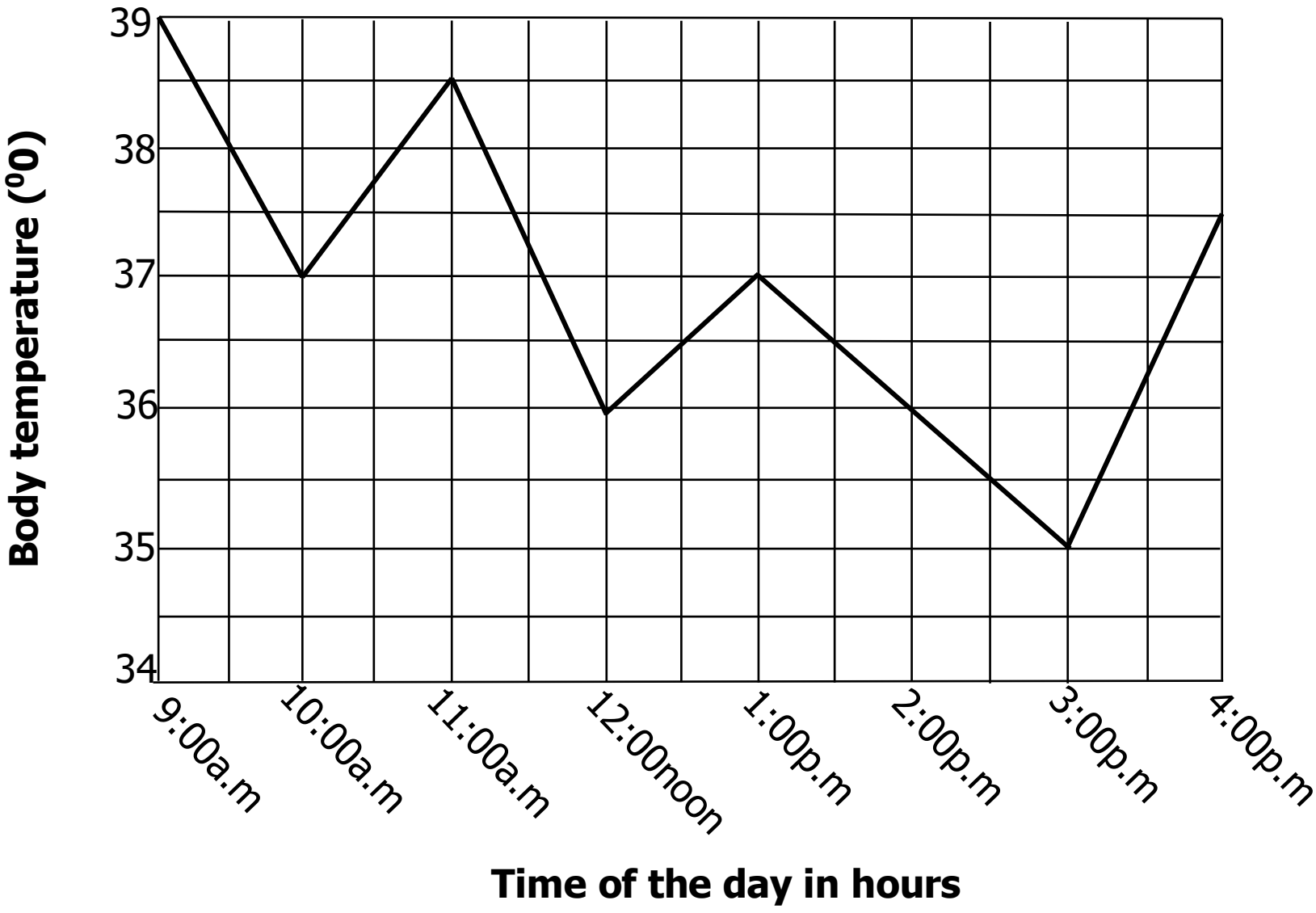
29. The diagram below shows a rectangular door curtain **ABCD** of length 15m patched with a shaded triangular design **DEB.** Length **DE** = 9cm**.** Study the diagram carefully and answer the questions that follow**.**



(a) Workout the area of the triangular door **DEB.** (02 Marks)

(b) Find length **BE.** (03 Marks)

30. A patient whose body temperature was 39^0c was admitted at Maanyi Health Centre III on a certain day. The changes in the body temperature at different time intervals was recorded on the graph below. Study and use it to answer the questions that follow.

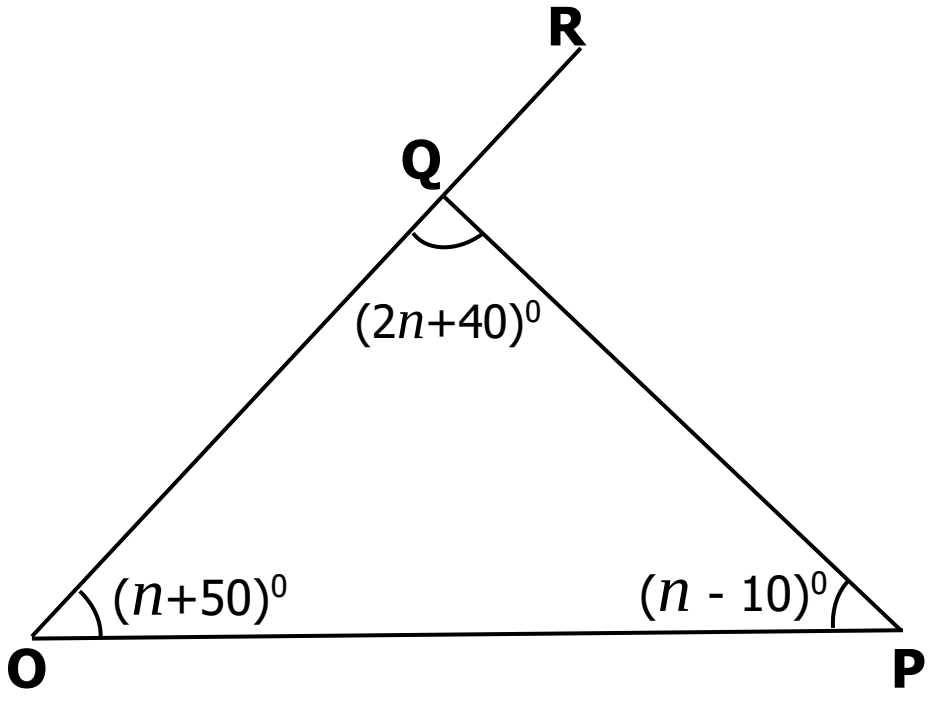


(a) Write the scale used on the vertical axis. (01 Mark)

(b) What was the patient's temperature at 2:30a.m? (01 Mark)

(c) Workout the patient's temperature range. (02 Marks)

31. Study the diagram below carefully and use it to answer the questions that follow.



(a) Find the value of n. (03 Marks)

(b) Find the size of angle **PQR**. (02 Marks)

32. The table below shows the weights in kilograms of men in a Rugby team. Study and use it to answer the questions that follow.

Weight in kg	80	65	44	30
No. of men	2	2	t	3

(a) If the mean weight of all the men is 50kg, find the value of t.
(04 Marks)

(b) How many men weigh less than the mean weight? (01 Mark)

END