SUREKEY EXAMINATIONS BOARD

PRIMARY SEVEN PLACEMENT SET 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 **15 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: 16×4.
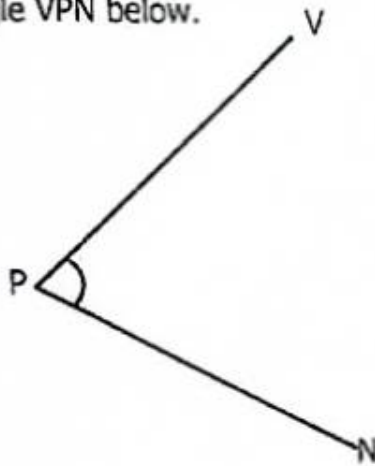
2. Find the number that has been expanded below.

    $(2 \times 1000) + (4 \times 100) + (6 \times 1)$

3. Given that Set B = {3, 4, 5, 7, 9}, Set C = {0, 2, 3, 5, 7, 8} and Set K = B – C. Find n(K).

4. A company pays sh.5,500 per worker everyday. How much does the company pay for 3 workers in 4 days?

2

5. Workout the area of a circle of radius 14cm.   (Use $\pi = \frac{22}{7}$)

$\square$
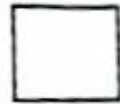
6. Using a pair of compasses, ruler and pencil only, draw a line that bisects the acute angle VPN below.
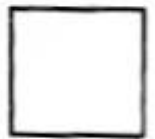

7. Simplify: $3k + 5p - 2p - 2k$

8. Workout: 4 2 3five
              - 1 4 2five
              _____

              _____

Turn Over

9. The pictures ☼ ☼ ☼ ☼ represent the number of onions in a heap.

   If ☼ represents 25 onions, how many onions are in the heap?

10. Convert 5:36p.m. to the 24 – hour clock system of telling time.
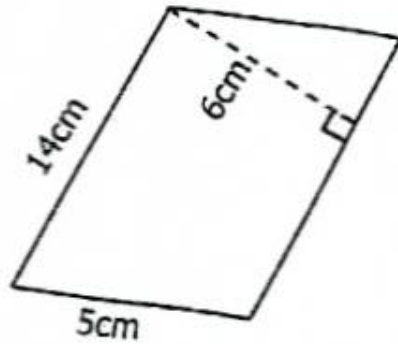
11. What is the Greatest Common Factor (GCF) of 15, 30 and 45?

12. A class had 45 pupils last term. This number has increased by 20%. Find the new number of pupils in the class.

13. Write the number CCCIX in the Arabic Numeral form.

14. Workout the area of the figure below.

15. Simplify: $\frac{1}{3} + \frac{3}{4} - \frac{1}{6}$.

16. Shanice had British pound sterling, £3,890 which she wanted to exchange to Uganda shillings. If the exchange rate was £1 costing Ugsh.4,500. How much money in Uganda shillings would she get?

Turn Over

17. Find the sum of the missing numbers in the sequence below.

12, ..., 36, 48, ..., 72

18. A water tank is filled with 5000 litres to its full capacity. How many jerrycans of size 20,000 millilitres can fill the tank?

19. In the diagram below, line XY is parallel to line DM. Use the diagram below to find the value of P.
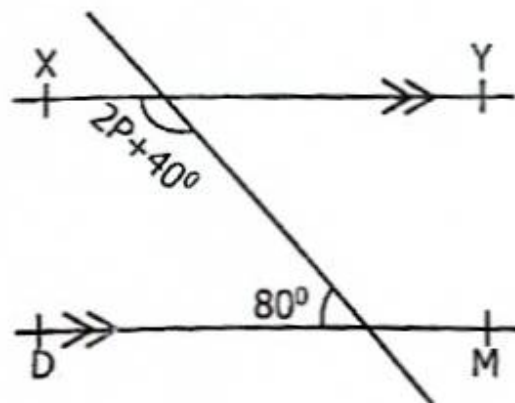
20. Solve and write the solution set for; y + 5 > 9

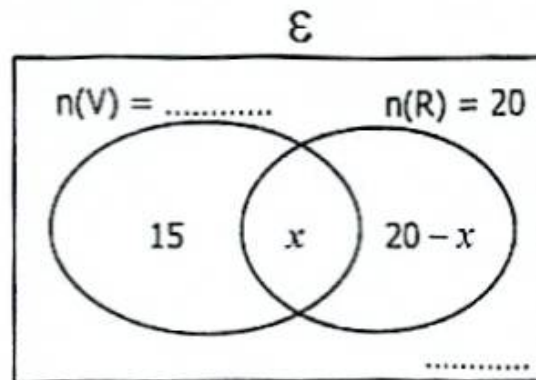21. The Venn diagram below shows the number of pupils in Primary ...n who play Volleyball (V) and Rugby (R). Some pupils play other g.. ... The number of pupils who play other games is twice those that p.. ..oth Volleyball and Rugby.

    (a) Complete the Venn diagram below correctly. (02 Marks)

    ε

    $n(V) = \ldots\ldots\ldots\ldots$ $n(R) = 20$

    15   x $20 - x$

    $\ldots\ldots\ldots\ldots$

    (b) If 16 pupils play only Rugby, find the value of x. (02 Marks)

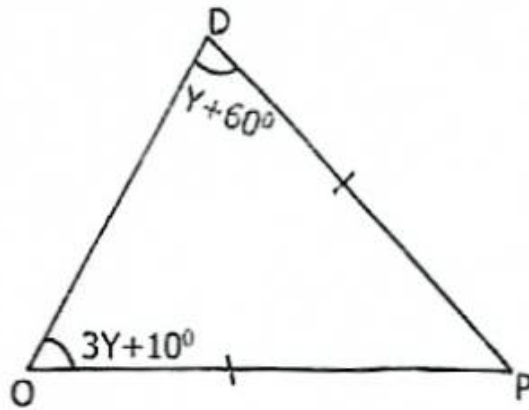   (c) How many pupils are in the class? (02 Marks)

Turn Over

22. Jethro, Aldrine and Ketra shared sweets in the ratio of 2: 4: 7 respectively.

Find the total number of sweets shared if Aldrine got 12 sweets.
(03 Marks)

(b) How many sweets did Ketra get more than Jethro? (02 Marks)

23. The diagram below shows an Isosceles triangle DOP. Use it to find the size of angle OPD. (04 Marks)

24. The prime factors of two numbers M and N are;
$Pf_N = \{2_1, 3_1, 7_1\}$ and $Pf_M = \{2_1, 2_2, 2_3, 3_1\}$

(a) Find the Least Common Multiple (LCM) between the two numbers. (02 Marks)

(02 Marks)

(b) Workout the value of M and N.

Turn Over

25. Opolot moved from Town D to Town K at a speed of 75km/hr for 2 hours. Nankya covered the same distance from 2:45p.m. to 4:15p.m. At what speed was Nankya travelling? (05 Marks)

26. Below is a list of items with their prices a woman bought when preparing for Christmas day. Use the list to answer the questions that follow.

       4 litres of milk at sh. 2,000 each litre.
       2 loaves of bread at sh. 13,000.
       600 grammes of sugar at sh. 2500 per kg.
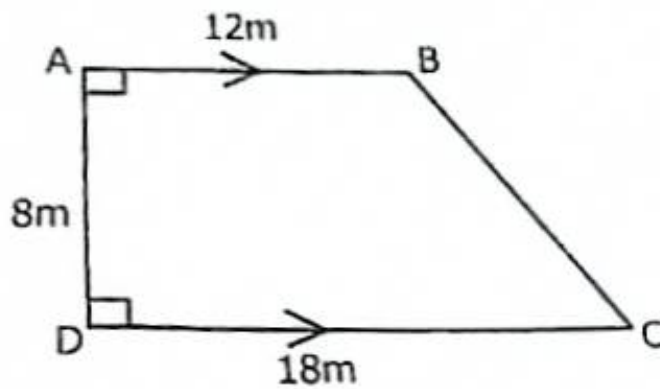   3.5kg of meat at sh. 16,000 each kg.

(a) Workout the woman's total expenditure? (04 Marks)

(b) How much money would she have spent on bread if she had bought 3 loaves? (02 Marks)

27. The figure ABCD below is a trapezium. Use it to answer the questions that follow.

(a) Find the area of the figure ABCD.   (02 Marks)

(03 Marks)

(b) Workout the length BC.

28   ...ny bank charges an interest rate of 15% per year for any amount owed. If Mr. John borrows sh. 1,200,000, calculate the total amount of money he will pay back to the bank after 8 months.

(05 Marks)

29. (a) Solve the equation: $\dfrac{2w - 5}{3} = 7$. (03 Marks)

(b) Workout: $3 - 5 =$ _____ (finite 4) (02 Marks)

30. The table below shows the marks scored by the pupils in the End of Topic test.

Number of pupils	4	1	2	3
Marks scored	60	80	50	40

(a) Workout the median mark. (02 Marks)

(03 Marks

(b) Calculate the average score.

Turn

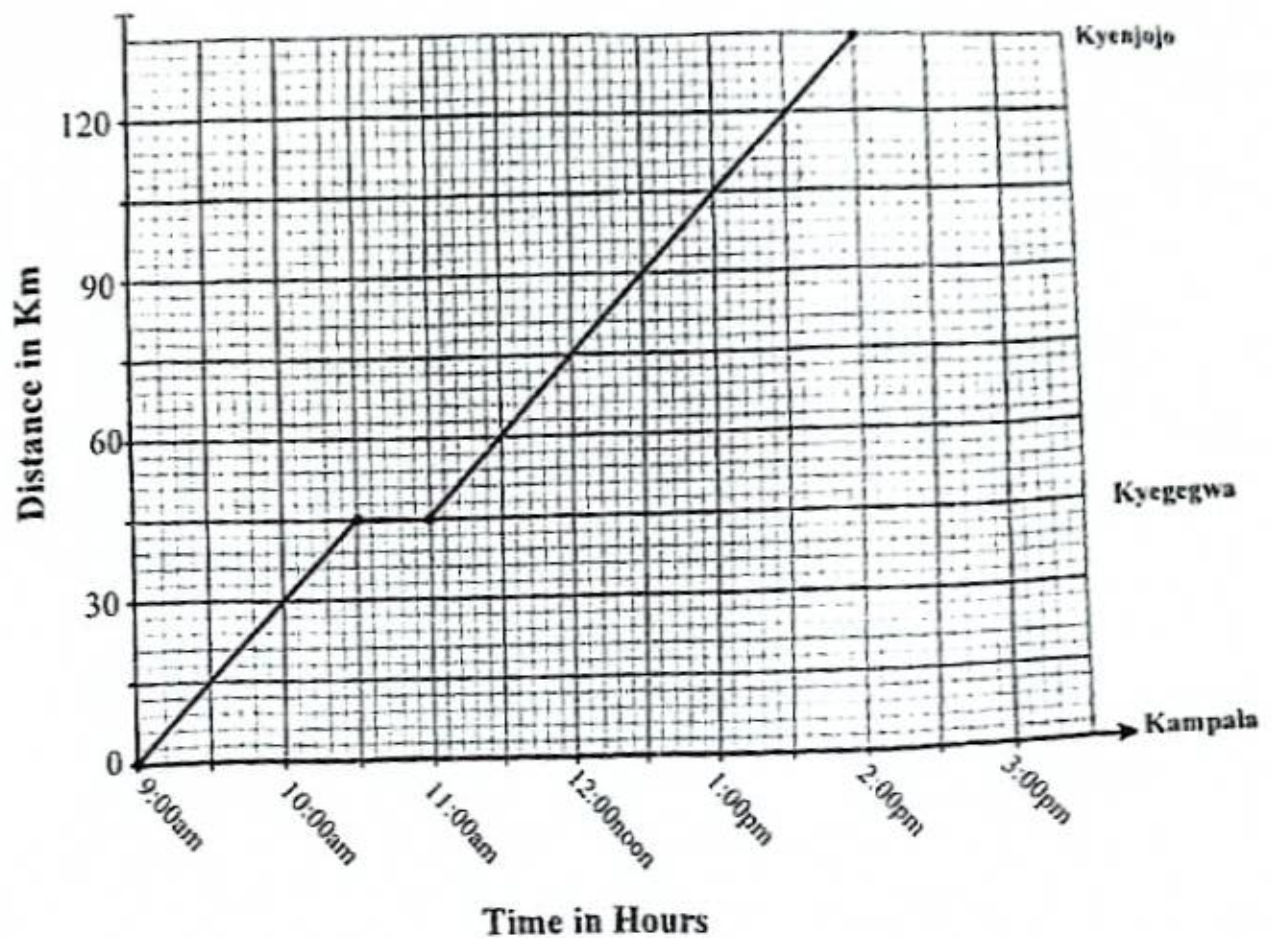31.   Using a ruler and a pair of compasses only, construct a triangle HCF in
       which length HC = 8cm, angle HCF = 60⁰ and length CF = 6cm.

                                                              (04 Marks)

    (b)   Measure and write down the size of angle CHF.   (01

           Angle CHF = _____

14

32. Study the distance – time graph below showing the journey of a traveller from Kampala to Kyenjojo via Kyegegwa and use it to answer the questions that follow.

(a) How far is Kyenjojo from Kampala? (01 Mark)

(b) For how long did the traveller stay at Kyegegwa? (01 Mark

(c) Calculate the average speed for the whole journey. (02 Marks