SOROTI DISTRICT PRIMARY SCHOOLS
MOCK 2025
PRIMARY SEVEN

MATHEMATICS

Time Allowed: *2 Hours 30 Minutes*

INDEX No.			Random No.				Personal No.		

Candidate's Name:...

Candidate's Signature:...

District ID No. | | | |

FOR EXAMINERS' USE ONLY

Read the following instructions carefully"

1. Do not write your **school** or **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.
3. Answer **all** the 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 Examiner's use only"** and boxes inside the question paper.

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		

Turn Over

SECTION A (20 QUESTIONS - 40 MARKS)

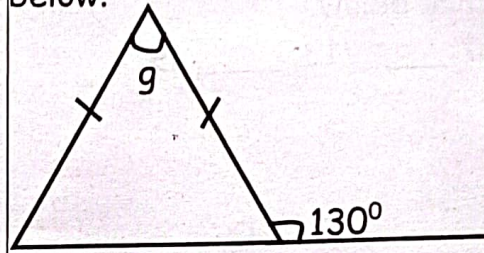|	
1. Workout: 93 + 41	2. Simplify: ⁻6 + ⁺4
3. Write 40432 in words.	4. Show all lines of folding symmetry of the figure below.
5. Solve 3 − 2w < 9.	6. Two angles lie on a straight line. If one of the angles is 2y, find the second angle.
7. The cost of 5 packets of biscuits is sh.7000. How many packets can be bought with sh. 9800?	8. Find the mean of 2k, 14, 6k and 6.

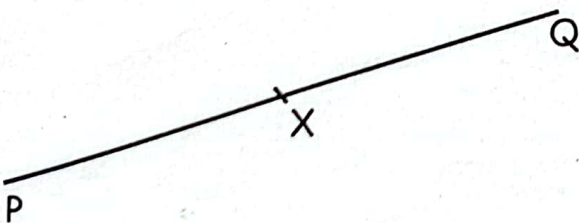| 9. Expand 62.5 using values.	10. Find the value of g in the figure below. 130^0
11. Express $\frac{1}{5} : \frac{1}{4}$ into a percentage.	12. A meeting that started at 10:15am ended at 1:10pm. For how long did it last?
13. It takes 10 men working at the same rate 12days to clear a garden. If the garden is to be cleared in only 8days. How many more men are needed?	14. A circular fish pond has a diameter of 28 metres. Find in square metres the size of the fish pond. (Take $\pi = \frac{22}{7}$)
15. Using a ruler and a pair of compasses only, construct a perpendicular through point X on line PQ below. Q X P	16. Given that A = {a, b, c, d, e, f} and set B = {p, f, a, q, d}. Find n(B-A)

17. Fill in the missing numbers in the sequence below.

2, 3, 5, 7 _____, 13, _____ 19

18. Express 0.1666... as a common fraction.

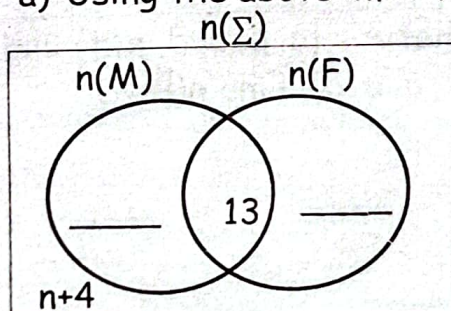19. Round off 59.978 to the nearest tenths

20. Kezia withdraw a bundle of 100 bank notes numbered consecutively. If the serial number of the last note is AP860941. Find the serial number of the first note.

SECTION B (60 MARKS)

21. In a party, 2n -7 guest ate Meat only (M), 13 ate both meat and Fish (F), while n + 4 ate none of the two types of food. The number of guests who ate Fish only is 6 more than those who ate both types of food.

a) Using the above information, complete the Venn diagram.   (2marks)
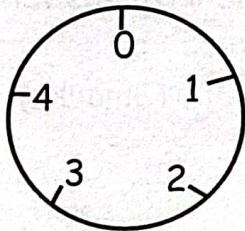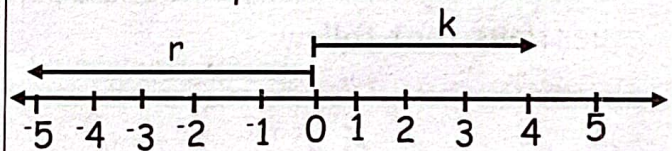
n(Σ)

n(M)   n(F)

_____   13   _____

n+4

b) Find the value of n if 30 guests ate Meat. (2marks)

c) How many guests ate other types of food? (1mark)

22. a) Workout 2 x 3 = (mod 5) using a dial. (2marks)

b). Study the number line below and use it to answer questions that follow.

Name the integers represented arrows;

(i) k = (1mark)

(ii) r = (1mark)

c) Given that the mathematical sentence for the above number line is ⁻5 - ⁺4 = ⁻9. Draw an arrow on the number line to complete the sentence above. (1mark)
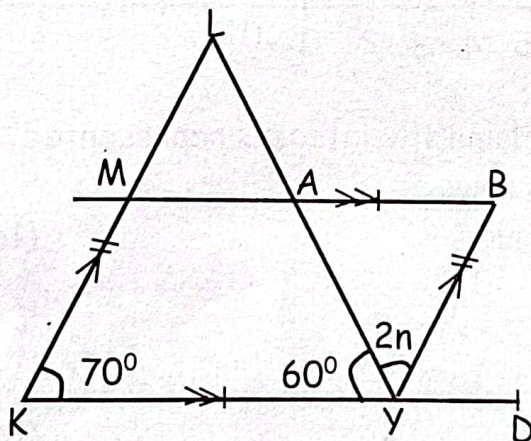
23. Using a ruler, a pencil and a pair of compasses only. Construct a rhombus PQRS such that diagonal PR =10cm, and diagonal QS = 7cm. (4marks)

b) Measure the length of line PQ ....cm (1mark)

24. In the diagram below, MKYB is a parallelogram. Study and use it to answer questions that follow.

(a) Find the value of n. (3marks)

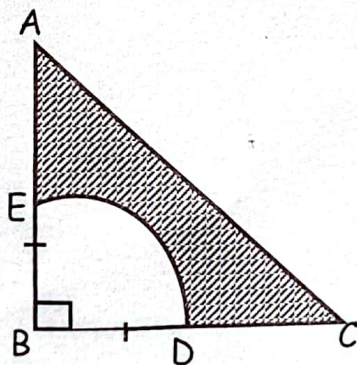b) Workout the size of angle LAB. (2marks)

25. At a school canteen, the attendant sells items as shown below.

1kg of sugar at sh. 5000.

A kilogram of rice at sh. 4000.

A litre of cooking oil sh. 4500.

A bar of soap at sh. 3000.

a) Find the amount of money the attendant will collect when he sells 2.5kg of rice, $\frac{1}{2}$litre of cooking oil and 750g of sugar. (4marks)

b) If the attendant buys a box of soap at sh. 55,000, How much profit will he make if the box contains 25 bars? (2marks)

26. In the figure below, AB = 28cm and BC = 20cm. Line EB is half of line AB. Study and use it to answer questions that follow.

Find the area of the shaded region. (4marks)

27. The LCM of two numbers, 6r and 4r is 144. Find the value of r if their GCF is 6. (3marks)

b) Write $2^3 \times 3^2$ as a single number. (2marks)

28. a) Solve: $5(n - 1) - 3(n - 2) = 19$ (2marks)

b) Find the value of $(3k)^r$ if r = 3 and k=2. (2marks)

29.   Given the number; 629.53
a) write the place value of 3 in the above number in figures. (1mark)

b) Express the number in standed form. (2marks)

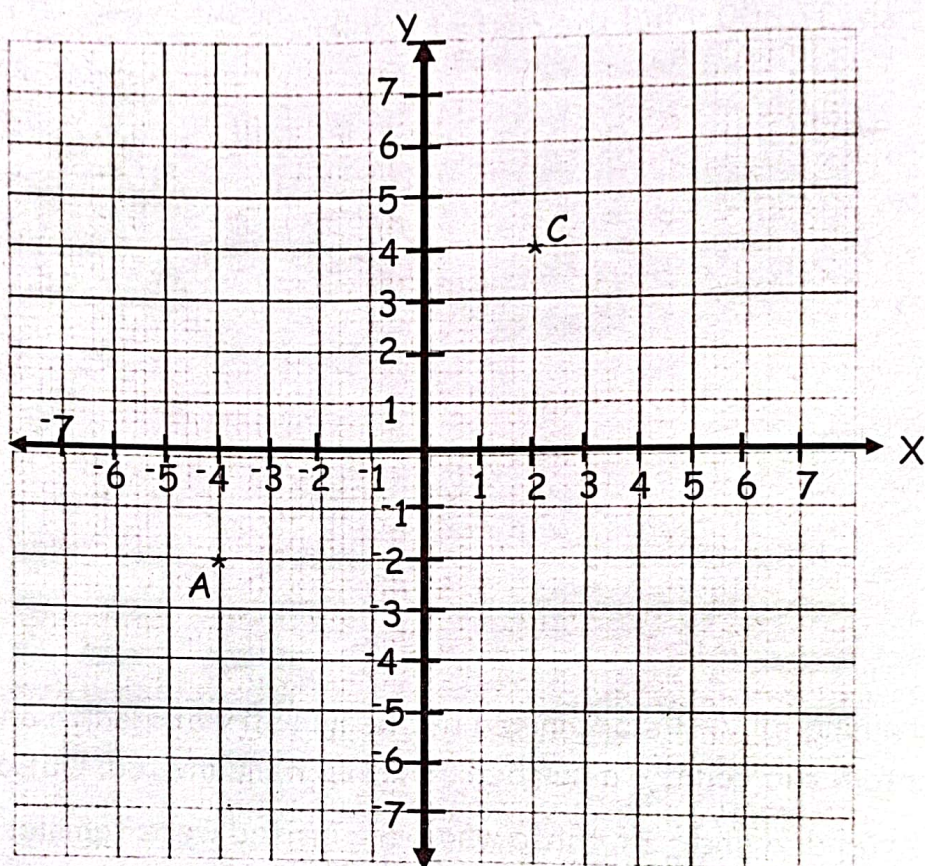c) Find the range of the value of 2 and 3 in the number above. (2marks)

30. In a bookshop, the cost of aruler is sh.600 more than the cost of a book and a geometry set costs a twice the cost of a ruler. If the total cost of all the three items is sh. 37,800. Find the cost of a ruler. (4marks)

31. In a training of VHT's organised by the ministry of Health on HIV awareness in a certain sub county, a number of VHT's were invited. Out of the invited, all males attended and $\frac{5}{8}$ of those who were invited were females. If 80 people attended the training and $\frac{4}{5}$ of the females did not attend the Training.
Find the total number of people who were invited. (5marks)

32. Use the grid below to answer questions that follow.

a) Name the coordinates of points A and C.

   (i)   A   (1mark)

   (ii)   C   (1mark)

b) Plot the points B ($^-$4, $^+$4), D($^+$6, $^-$2) on the grid above.   (2marks)

(c) Join the points; A to B, B to C, C to D and D to A and name the shape formed.

                                                         (2marks)

END