



# MASAKA CITY EXAMINATIONS BOARD

## PRIMARY LEAVING MOCK EXAMINATIONS

2025

### MATHEMATICS

**Time Allowed: 2 Hours 30 Minutes**

RANDOM NO.						SCHOOL CODE	PERSONAL NO.		

**Candidate's Name:** .....

**Candidate's Signature:** .....

**Read The Following Instructions Carefully:**

1. Do not write your school 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. This paper has 15 printed pages.
3. Answer all questions. All the working for both sections A and B must be shown in the spaces provide.
4. All working must be written in blue or black ball point pen or ink. Any work done in pencil other than on 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.
8. 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**

Attempt all questions in this section.

Questions 1 to 20 carry two marks each.

1. Work out:

$$\begin{array}{r} 836 \\ - 412 \\ \hline \\ \hline \end{array}$$

2. Solve for n:  $2(n - 3) = 18$

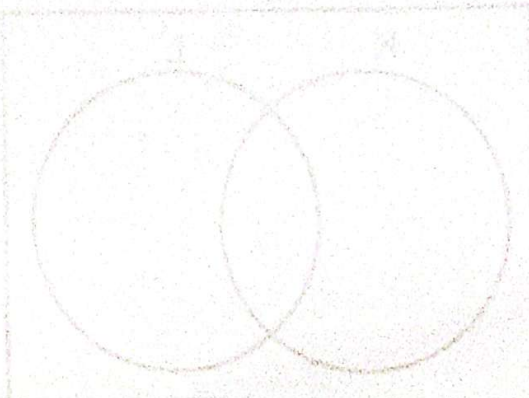
3. Simplify:  $+5 - +8 - -10$

4. Complete the sequence below correctly.

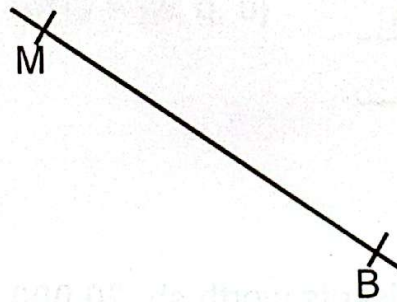
8, 4, 2, 1, \_\_\_\_\_

**Turn Over**

5. Write in figures; **Ninety thousand, two hundred six and thirty - three hundredths.**



6. Using a ruler, a pencil and a pair of compasses only, draw a perpendicular bisector on the line segment MB.

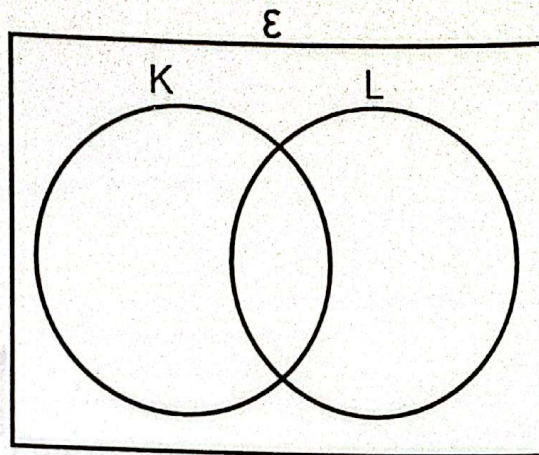


7. An examination paper started at **2:30pm**. A candidate reached **15** minutes late. If the exam ended at **4:00 p.m**, how long did the candidate take writing the examination?

**Turn Over**



8. On the Venn diagram below, shade  $(K \cap L)^1$ .



9. Work out:

$$\begin{array}{r} 1100_{\text{two}} \\ - 111_{\text{two}} \\ \hline \\ \hline \end{array}$$

10. At a music concert, tickets worth sh. **20,000** each were issued out numbered consecutively from 512 to 771, How much money was collected?



Turn Over



11. Work out the mean of  $p + 2$ ,  $2p - 4$ , 6 and  $3p + 1$ .



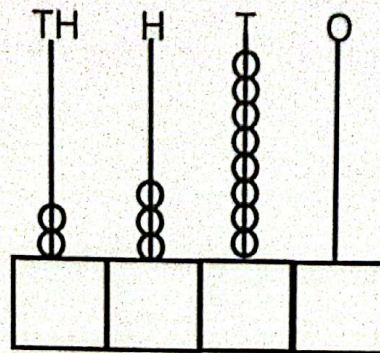
12. List the proper subsets of set  $G$ .  
Given that set  $G = \{w, q, u\}$

13. 20 poles are fixed in a straight line along one side of the road.  
The poles are fixed at intervals of 5 metres. Find the length of the road.

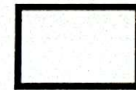
Turn Over



14. Write the number shown on the abacus in standard form.



15. Solve for e:  $3^{2e} \div 81 = 1$



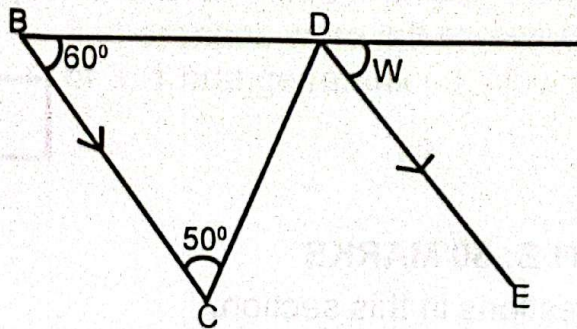
16. Mr. Abuo **borrowed** sh 180,000 for 3 years. He paid back a total sum of sh.216,000. Calculate his **percentage** interest rate.

Turn Over



17. Solve the inequality:  $3(2-k) < 15$ .

18. In the diagram below, line BC is parallel to line DE. Find the size of angle W.



19. A cyclist left Mbarara at 10:05 pm and reached Kasese at 5:20am.  
For how long was the journey?

Turn Over



20. Work out the **distance** round a circular garden of diameter 28 metres. (use  $\pi$  as  $\frac{22}{7}$ )



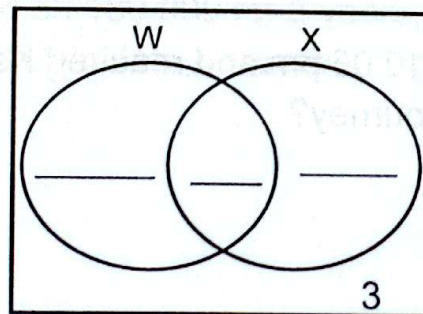
### SECTION B: 60 MARKS

Attempt **all** questions in this section.

Marks for **each part** of the question are **indicated** in the brackets.

21. Complete the Venn diagram with the information given below.

$$n(W - X) = 12, n(X - W) = 8, n(W \cup X) = 3 \quad n(\epsilon) = 30 \quad (04 \text{ marks})$$



- (b) Find the **probability** of picking a member of **w** complement.

(02 marks)

Turn Over



22. (a) Use a dail to work out  $3 - 4 =$  \_\_\_\_\_ (mod 6) (02 marks)

(b) Amos had some oranges. When he grouped them in heaps of 8, 4 oranges were left and when he put them in groups of 3, 1 orange remained. How many oranges did he have?

(03 marks)

23. Solve the inequality and give the solution set;  $3(2 - h) \leq h + 14$ .

(04 marks)

Turn Over



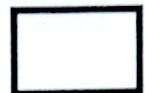
24. Daniel divided his land as follows;  $\frac{2}{5}$  to his wife,  $\frac{1}{3}$  to his sons and the rest to the daughters.

(a) Find the fraction he gave to his daughters.

(03 marks)

(b) If he gave 20 acres of land to his sons, how many acres did he have altogether?

(02 marks)



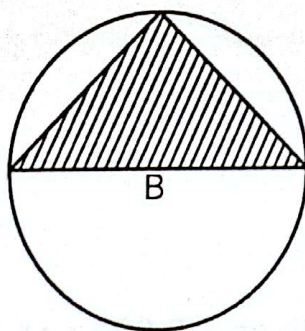
Turn Over



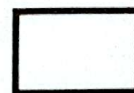
25. (a) Express the product of 263 and 7 using exponents. (03 marks)

(b) Simplify:  $\frac{W^5 \times W^7}{W^2 \times W^3}$  (02 marks)

26. The figure below shows a roundabout with a triangular flower garden in it. B is the centre of the roundabout and the total distance around the roundabout is 88 metres. Study the figure and answer the questions that follow.



(a) Find the area of the roundabout that is not covered by the flower garden. (Take  $\pi$  as  $\frac{22}{7}$ ) (05 marks)



Turn Over



27. A father sent his daughter to a shop with the list of items to buy;

2kgs of sugar at sh. 5,500 per kg.

250 gm of salt at sh. 2,000 per kg.

A bar of soap at sh. 6,000.

$1\frac{1}{2}$  kg of rice at sh. 9,000.

(a) Prepare a shopping bill table for the list above.

(05 marks)

Items	Quantity	Unit price	Total cost
salt			
sugar			
rice			
soap			
Total			

(b) If the daughter went with sh. 20,000 and it was not enough to buy all the items, how much more money was needed?

(01 mark)

Turn Over



28. Using a ruler, a pencil and a pair of compasses only, draw line  $AC = 4\text{cm}$ , bisect  $AC$  so that the perpendicular bisector meets  $AC$  at  $O$ . On the bisector, line  $OB = 2\text{cm}$  and  $OD = 6\text{cm}$ , join  $BC$ ,  $CD$ ,  $DA$  and  $AB$  to form a quadrilateral  $ABCD$ . (04 marks)

(b) Name the quadrilateral  $ABCD$  formed.

(01 mark)



- 29.(a) Round off 86,973 to the nearest thousands.

(02 marks)

- (b) Makolo is  $LX$  years old now. In which year was he born?

(02 marks)

Turn Over

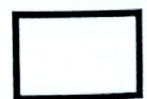


30. A cyclist started his journey at 8:30 am from Kampala to Kabale. As he reached Masaka, he rested for 30 minutes after covering 180km at 90km/h. He continued to Kabale for 4hours at 70km/h.

(a) Find the cyclist's average speed for the whole journey. (04 marks)

(b) At what time did he reach Kabale?

(02 marks)



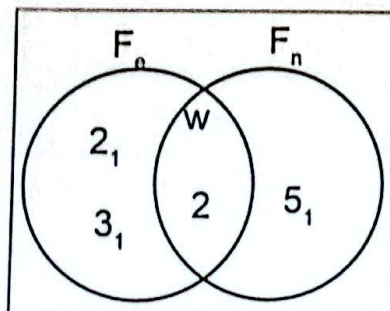
Turn Over



31. (a) Four pieces of wire measuring 48m, 36m, 24m and 60m are to be cut into equal pieces without wastage. What is the length of the longest piece of wire that can be cut from each wire?

(02 marks)

- (b) Study the prime factors on the Venn diagram below and use them to answer the questions that follow.



Given that the G.C.F of  $F_e$  and  $F_n$  is 6, find the;

- (i) L.C.M of  $F_e$  and  $F_n$ .

(02 marks)

- (ii) value of  $e$ .

(02 marks)

Turn Over

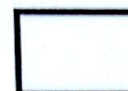
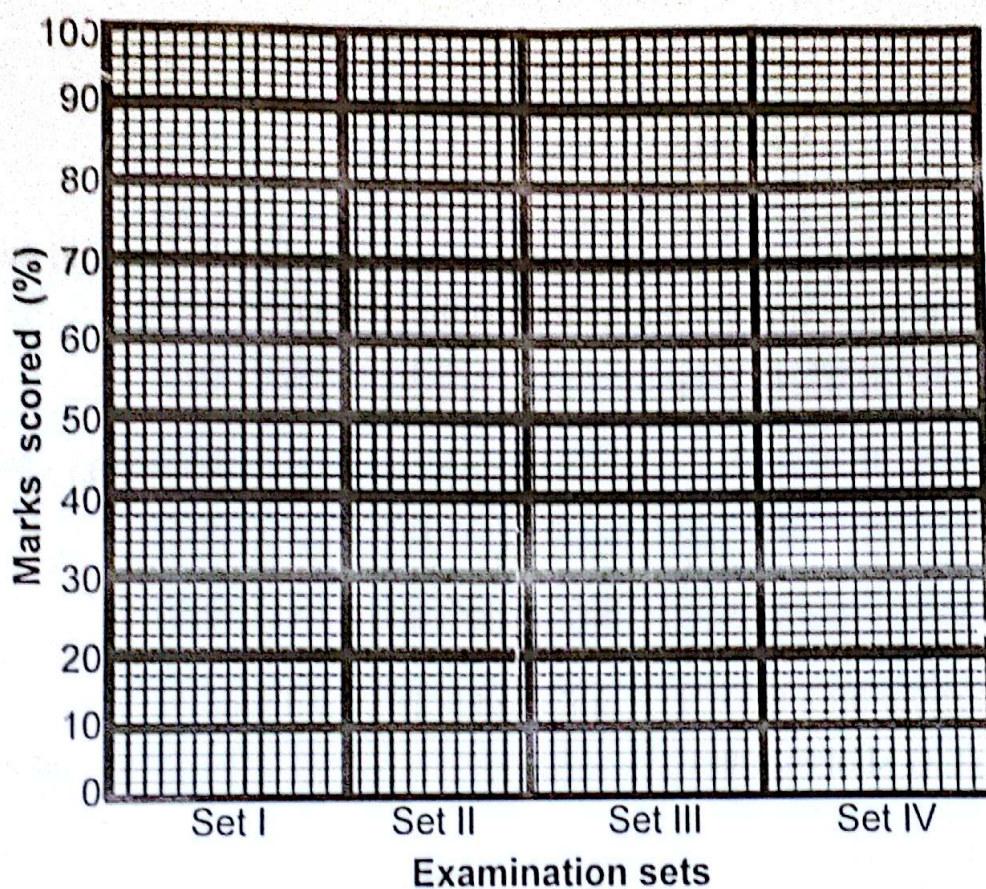


32. Nyangoma scored marks in a series of examination sets as shown in the table below;

Set of examination	Set I	Set II	Set III	Set IV
Marks scored (%)	78	84	86	90

Use the above information to complete the graph below.

(04 marks)



Turn Over