



MBALE CITY EXAMINATIONS BOARD

PRIMARY LEAVING MOCK EXAMINATION

2025

MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

RANDOM NO.					PERSONAL NO.				

Candidate's Name:

Candidate's Signature:

School Name:

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**.
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

Attempt all questions in this section.

Questions 1 to 20 carry two marks each.

1. Work out: $\frac{1}{2} \times \frac{1}{2}$

2. Find the **next** number in the sequence below.
3, 6, 9, 12, 15, _____

3. Write fourteen thousand ninety in figures.

4. Given that set $Y = \{a, b, c, d, e\}$, $Y \cap Z = \{a, c, e\}$, and $Z - Y = \{ \}$.
Find $n(Z)$.

Turn Over

5. Solve the inequality $5 - 2t > 9$



6. Use a protractor and a pencil to draw an angle of 105° in the space below.

7. Simplify: $1 \div 4 = \underline{\hspace{2cm}}$ (finite 5)

8. To make tea for her guests, Sanyu mixed water and milk in the ratio of 2:3 respectively. She used 6 litres of water.
Find the amount of tea Sanyu made for her guests.

Turn Over

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9. The **area** of a square flower garden is 324 m^2 . Find the **perimeter** of the garden.

10. The average weight of 6 men is 65kg, when two other men are added, the average weight becomes 70kg. What is the average weight of the other two men?

11. A dice with faces numbered 1 to 6 is tossed **once**.
Find the probability that a factor of **12** will show on top.

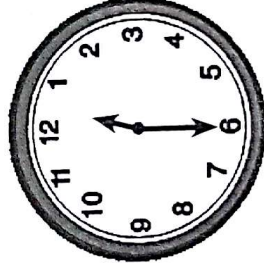


Turn Over

12. Convert 14_{five} to binary.

13. The interior angle of a regular polygon is 135° .
Find the number of sides the polygon has.

14. Express the morning time shown on the clock face below to a 24 hour clock system.



Turn Over

15. An empty box weighs 1.6kg. Find the total mass of the box in kilogrammes, if **24** bars of soap each of mass **600g** were packed into it.



16. Simplify: $7 - 2(y - 2)$.

17. Samali bought 50 US dollars (USD) with Uganda Shillings (UGX) 192,500. Use the same exchange rate to find the amount of USD Samali would buy if he had **UGX 770,000**.

Turn Over

18. An assembly which lasted for $\frac{2}{3}$ of an hour started at 8:20 a.m.
Find the **time** it ended.

19. Correct 128.3674 to two places of decimals.

20. **Work out** $(96 \div 6) - (36 \div 6)$ using distributive property.

Turn Over



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SECTION B: 60 MARKS

Attempt all questions in this section.

Marks for each part of the question are indicated in the brackets.
21. The sum of three consecutive odd numbers is 87. If the least number is $m+1$;

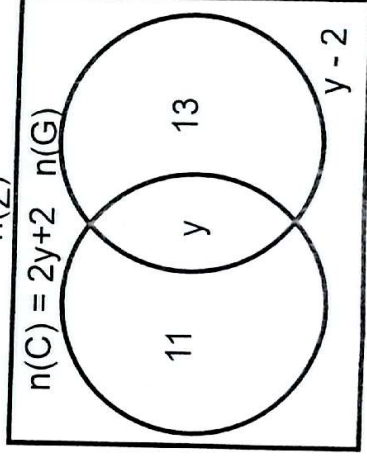
(a) Find the numbers.

(04 marks)

(b) Calculate their median.

(01 mark)

22. The Venn diagram below shows the number of pupils who play cricket (C), and golf (G) in a class.



(a) Find the value of y .

(02 marks)

Turn Over

- (b) Find the probability of selecting a pupil who plays either cricket or golf.
(03 marks)



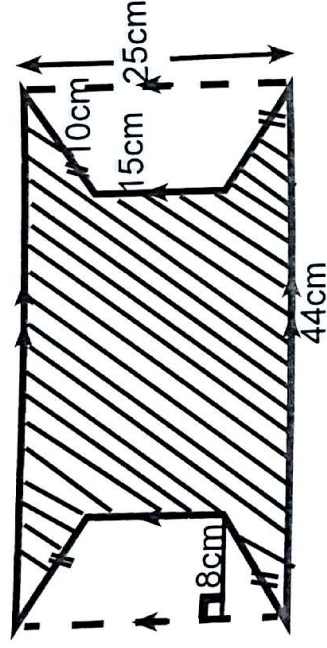
23. At a bakery, 3 pairs of cakes are packed in a packet, and 144 cakes are packed in a box. The bakery produces 25 boxes of cakes every day.

- (a) Work out the number of cakes produced at the bakery in one day.
(02 marks)

- (b) Find the number of packets contained in 3 boxes.
(03 marks)

Turn Over

24. A rectangular metal sheet measures 44cm by 25cm. Two equal identical pieces were cut off, leaving the shaded part as shown below.



- (a) Calculate the perimeter of the whole metal sheet left. (02 marks)

- (b) Find the area of the sheet remaining.

(03 marks)

Turn Over

25. A plane flew from town **A** on a bearing of 240° to town **B** for a distance of 300km. The plane then left town **B** and flew on a bearing of 300° to town **C** for a distance of 350km.

(a) Using a scale of 1cm to represent 50km, draw an accurate diagram to show the route of the plane.

(04 marks)

(a) Find the bearing of town **B** from town **C**.

(01 mark)

26. Malaika bought 16 school bags at the same price and sold all of them, making a profit of sh.2,000 on each bag. She sold all the bags at a total cost of sh.112,000. Find the price at which Malaika bought each school bag.

(04 marks)

Turn Over



27. A cylindrical can is completely filled with juice. The height of the can is 70cm, and the circumference of its top is 88cm.

(Take π as $\frac{22}{7}$)

Find in litres, the amount of juice in the can.

= (05 marks)

28. The table below shows the number of teams and the goals each scored in a netball tournament.

Number of teams	Goals scored
5	16
9	10
4	15
2	25

(a) Find the total number of teams that played in the tournament.

(01 mark)

Turn Over

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(b) Work out the total number of goals scored in the tournament.

(02 marks)

(c) Calculate the average number of goals scored.

(02 marks)



29. (a) Simplify: $\frac{3}{8} \div 1\frac{1}{2}$ of $\frac{2}{3}$

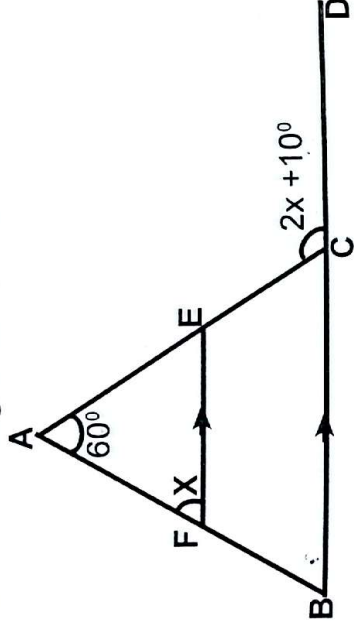
(02 marks)

(b) Work out: $\frac{20.7 - 2.34}{0.85 + 0.05}$

(03 marks)

Turn Over

30. In the figure below, line **BD** is parallel to line **EF**, angle **FAE** = 60° ,
ACD = $2x + 10^\circ$ and angle **EFA** = x



(a) Find the **value** of x in degrees.

(03 marks)

(b) Calculate the **size** of angle **AEF**.

(02 marks)

Turn Over



31. (a) Solve: $\frac{3}{4}(y - 1) + 6 = 12$

(02 marks)

(b) At Nakasero Market, the cost of a pen is sh 200 less than that of a book, the cost of a geometry set is one and half the cost of a book. Given that the difference between the cost of a pen and a geometry set is sh 700. Find the cost of a geometry set.

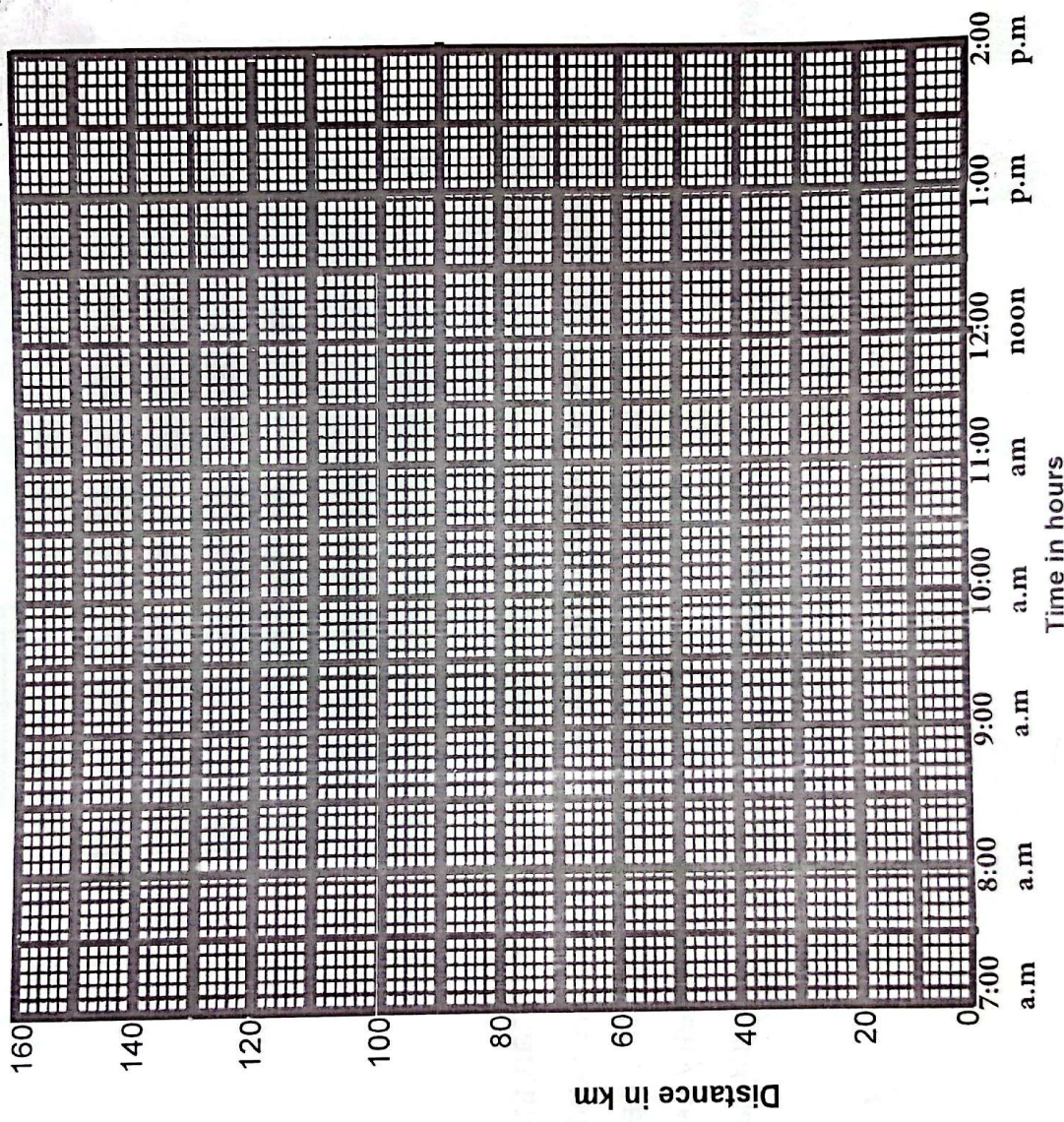
(03 marks)

Turn Over

32. Okutu left town X at 7:30 a.m and travelled for 2 hours at a speed of 30 km per hour to town Y. He rested for 30 minutes at town Y and later continued to town Z for an hour at an average speed of 70 km per hour. He rested at town Z for an hour and drove back to town X at a speed of 65 km per hour.

(a) Draw a travel graph on the grid below to show Okutu's journey.

(04 marks)



- (b) Calculate Okutu's average speed for the whole journey while travelling.

(02 marks)

Turn Over