



UGANDA NATIONAL EXAMINATIONS BOARD

PRIMARY LEAVING EXAMINATION

2024

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Random No.						Personal No.		

Candidate's Name:

Candidate's Signature:

District ID No.

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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. The paper has **15 printed pages**.
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 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.

Question **1** to **20** carry two marks each.

1. Work out : $72 \div 4$

2. If the cost of 2 books is Sh. 2,400. Find the cost of 9 similar books

3. Write Thirty thousand one in figures

4. Simplify: $52 \times 5 - 3 \div 5 - 1$

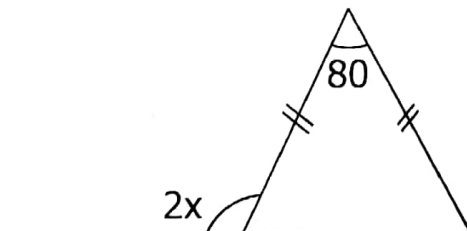
5. The bearing of town A from town B is 240° . What is the bearing of town B from A?

6. Calculate the average of $a - 2$, 3 , $2a + 1$ and $a + 2$

7. Write these integers in descending order. -2 , 3 , 0 , -1 , -3

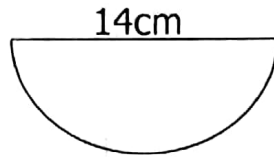
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8. Find the value of x in the figure below.



9. Write 0.0239 in standard form.
10. An examination started at 9:20am and lasted for $2\frac{1}{2}$ hours. When did it end?
11. In a basket , there are 6 red pencils and 9 green pencils. What is the probability of picking a green pencil from the basket?
12. Express 103_{five} in decimal base.

13. Calculate the distance around the figure below.



14. A milk vendor bought a 20 litre jerry can full of milk at Sh.24,000. He sold all the milk at Sh.1,300 per litre, Calculate his percentage profit.

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15. Mutebi drove his rally car at a speed of 72km per hour for 5 hours. What distance did he cover in 20 minutes?
16. Convert XL to Hindu Arabic Numeral system.

17. Cathy is 12 years old , she is 5 years younger than Timothy. Find the average age of the two children.

18. Use a ruler, pencil and a pair of compasses to construct an angle of $67\frac{1}{2}$.

19. Find the smallest number of apples such that if they are shared among 5 boys or 9 girls , 2 apples remain in each case.

20. Solve : $-3 + 2y = 5$

SECTION B: 60 MARKS

Answer **all** the questions in this section

Marks for each question are indicated in brackets

21. The length of a rectangle is three times its width. If the perimeter of the rectangle is 40m

(a) Find

(i) the length

02 marks

(ii) the width

02 marks

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(b) Work out the area of the rectangle.

02 marks

22. In a factory that makes curry powder, 50 sachets are packed in a box and

20 boxes are packed in a carton

(a) How many sachets are packed in a carton?

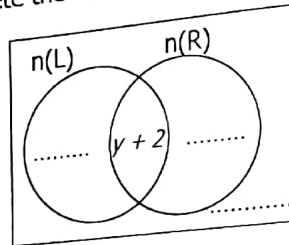
02 marks

Turn Over

- (b) If each box costs Sh. 7,500, find the cost of 2 cartons.

23. In a football team of 11 players, $2y - 2$ use left leg(L) only, $2y$ use right leg(R), only $y + 2$ use both legs while $y - 1$ use none of the two legs.

(a) Complete the venn diagram using the above data.



- (b) Find the number of players who use only one leg

- (c) What is the probability of choosing a player who uses both legs?

24. A concert at cooper theatre was attended by 50 people. Some of the people were adults and others were children. Adults paid Sh. 10,000 while children paid half that price. Altogether Sh.485,000 was collected from the entrants. How many children attended the concert?

04 marks

25. (a) Simplify: $\frac{0.2 + 1.08 - 0.4}{0.2 \times 0.4}$

02 marks

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- (b) Simplify: $2\frac{1}{2} \div \frac{1}{2}$ of $\frac{2}{5}$

02 marks



Turn Over

26. The diagonals of a rhombus bisect each other at 90° . Using a ruler and a pair of compasses, construct a rhombus ABCD where $AC = 12\text{cm}$ and $BD = 16\text{cm}$. 04 marks

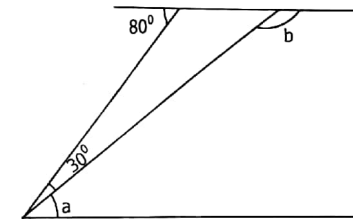
(b) Measure (i) AB 01 mark

(ii) Angle ABC 01 mark

27. (a) What sum of money when deposited in the bank for 2 years at an interest rate of 10% per annum amounts to Sh.66,000?

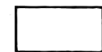
- (b) Find the interest got during that period. 02 marks

28. Study the figure below and answer the questions that follow.



- (a) Find the size of angle a. 02 marks

- (b) Work out the size of angle b 02 marks



Turn Over

- 29 (a) A motorist left Kampala for Mbale travelling at 60km/h. The motorist took $3\frac{1}{2}$ hours to arrive at Mbale. He then returned to Kampala at a steady speed of 70km/h. Calculate the average speed for the whole journey. *05 marks*

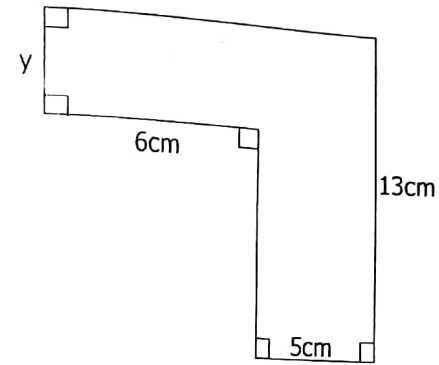
The interior angle of a regular polygon are in the ratio of 3 : 1 respectively.

- (a) Find the number of sides of the polygon *02 marks*

- b) Work out the interior angle sum of the polygons.

03 marks

31. Study the figure below and answer the questions that follow.



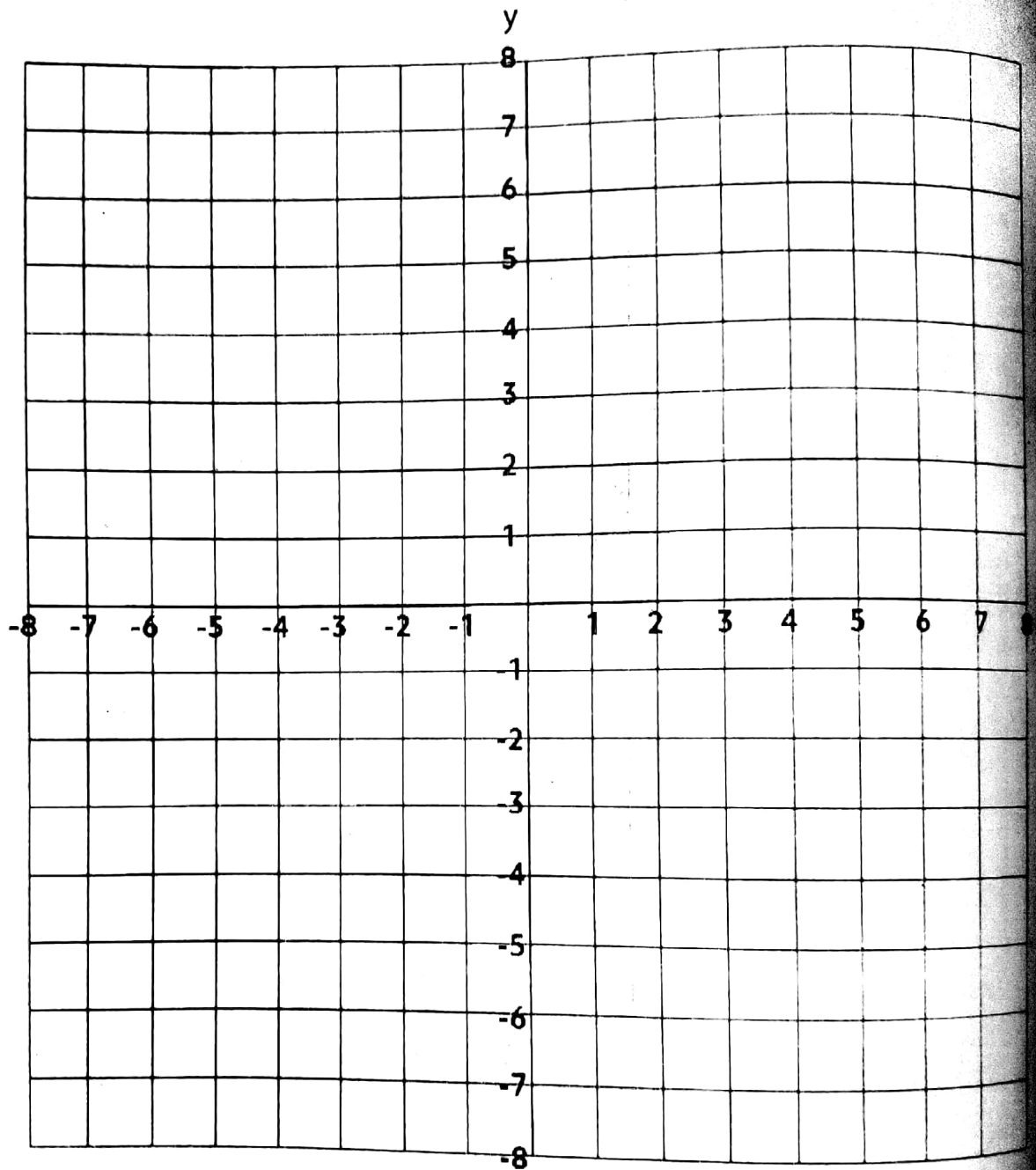
- (a) Find the perimeter of the figure.

03 marks

- (b) If the area of the figure is 89m^2 . Find the value of y .

02 marks

32. a) Plot the following points on the grid. $A(-3,3)$, $B(-3, -2)$,
 $C(4,-2)$, $D(4,1)$, $E(2,1)$ and $F(2,3)$



- (b) Join A to B to C to D to E to F
(c) Name the figure formed

04 marks

01 mark

END