UGANDA NATIONAL EXAMINATIONS BOARD

PRIMARY LEAVING EXAMINATION 2025

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Total mark scored	

Random No.						**Personal No.**		

Candidate's Name: .....

Candidate's Signature: .....

District ID No: | | | | |

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** 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 be easily read may lead to **loss of marks**.
7. Do not fill anything in the table indicated **"FOR EXAMINERS USE ONLY"** and the 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** *the questions in this section.*

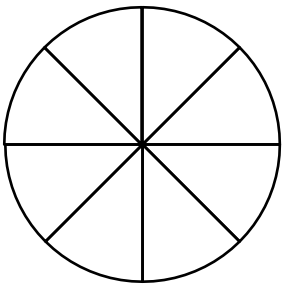
Questions **1** *to* **20** *carry* **two** *marks each.*

1. Write 5,326 in words.

2. Use the symbol =, < or > to complete the statement:

$^{-}3$ ..... $^{+}3$

3. Shade $\frac{1}{4}$ of the diagram below.



4. Convert 1,560 grammes to kilogrammes.

5. Given that Ɛ = {a, b, c, d, e, f, g, h}, M = {a, b, e, f} and K = {b, d}, find $n(M \cup K)'$.

6. Find the next number in the sequence:

128, 64, 32, 16, **.....**

7. Using a protractor, draw an angle of 85° in the space below.

8. Round off 37,594 to the nearest thousands.

9. There were 6,625 people who attended a football match. Out of this number, 5,879 were adults and the rest children. Calculate the number of children who attended the football match.

10. Work out: (25 × 26) + (24 × 25).

11. Given that $a = \frac{1}{2}$ and $b = 12$, find the value of $8a + ab$.

Turn Over

12. Atim took 200 oranges to sell in a market. She sold every 4 oranges for sh 1,500. Find the amount of money she got from selling all the oranges.

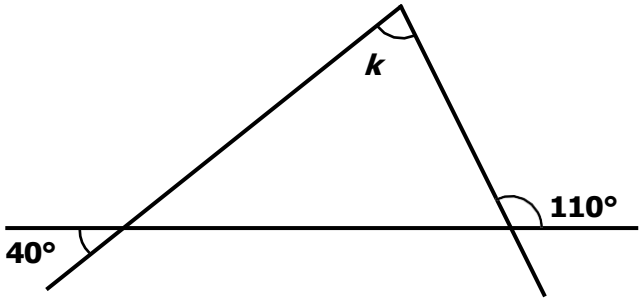
13. Find the median of the following numbers; 6, 13, 7, 11, 15, 9.

14. Peter is twice as old as Abdul. The sum of their ages is 72 years. Find the age of Abdul.

15. A man borrowed sh 2,000,000 from a bank. After 2 years, he paid an interest of sh 720,000. Calculate the interest rate per year.

16. Annet visited her aunt in March, 2025. She will visit her again after 16 months. Find the month and the year Annet will visit her aunt.

17. In the diagram below, find the value of *k*.



18. A teacher made a rectangular chart 85 cm long and 60 cm wide. The teacher fastened a tape along the edges of the chart. Find the length of the tape used.

19. The table below shows the uniform time intervals at which a nurse is to check on a patient in a hospital ward.

Interval	1st	2nd	3rd	4th	5th
Time	7:30 a.m.	9:50 a.m.	12:10 p.m.	.....	4:50 p.m.

Find the time when the nurse will check on the patient in the 4th interval.

20. Fatuma rolled a die once and observed the outcome. State the probability that the face on top shows a factor of 3.

Turn Over

SECTION B: 60 MARKS

Answer **all** *the questions in this section.*
Marks for each question are indicated in the brackets.

21. (a) Find the value of n and m in the base five addition.

(*02 marks*)

$$\begin{array}{r} 1m2_{\text{five}} \\ +\ 224_{\text{five}} \\ \hline 40n_{\text{five}} \end{array}$$

(b) Write the number which has been expanded below.

$(6 \times 10^4) + (3 \times 10^2) + (5 \times 10^1) + (9 \times 10^0)$. (*02 marks*)

22. In a shop, a mathematical set costs sh 5,000, a dozen of exercise books costs sh 24,000 and a pen costs half the price of a book.
A teacher bought 8 mathematical sets, 3 exercise books and 5 pens from the shop. Calculate the total amount of money the teacher spent on all the items.
(*06 marks*)

23. (a) Solve the inequality: $8 - 3t \geq 23$ (*03 marks*)

(b) Write the solution set for the inequality: $-2 < x < 2$ (*01 mark*)

24. On a school sports day, there were 800 guests. All the guests washed hands from a 20-litre water tank before they entered the school. On average, every guest used 400 millilitres of water. Calculate the total number of full 20-litre tanks of water the guests used. (*04 marks*)

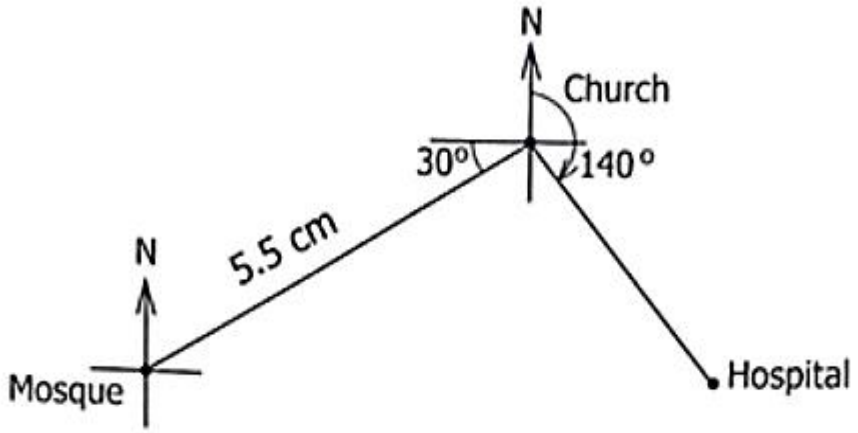
25. In a class, some pupils like either music (M) or debating (D). 35 pupils like music and 15 pupils like debating only. 17 pupils like music but do not like debating. *b* pupils neither like music nor debating. The total number of pupils who do not like music is 28.

(a) Represent the given information on a Venn diagram. (*04 marks*)

(b) Calculate the total number of pupils in the class. (*02 marks*)

26. The figure below is an accurate drawing of the positions of the three buildings in a trading centre. A scale of 1 cm to represent 50 metres was used.

Study and use the figure to answer the questions that follow.



(a) State the bearing of;

(i) the church from the mosque. (*01 mark*)

(ii) the church from the hospital. (*01 mark*)

(b) Find in metres, the shortest distance from the hospital to the mosque. (*02 marks*)

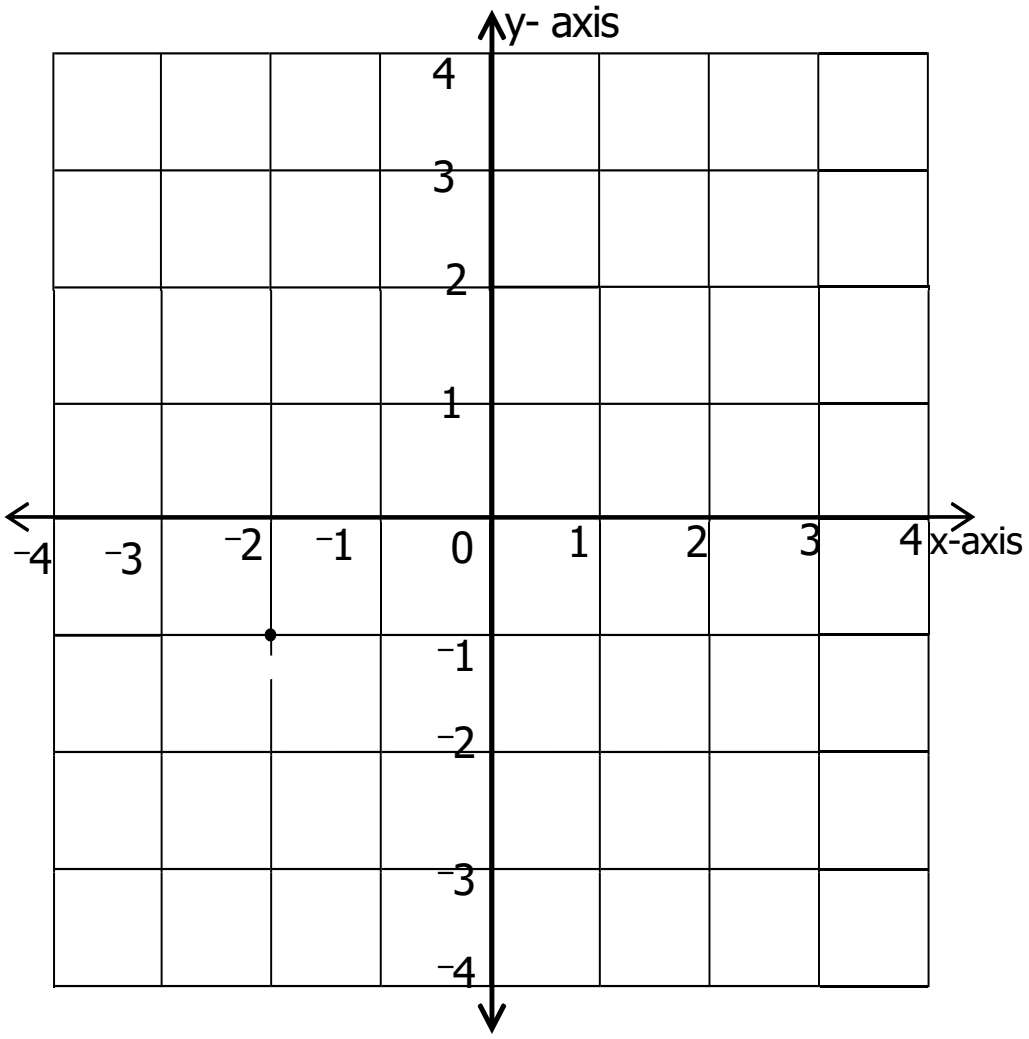
27. A businesswoman paid sh 800,000 for ten goats. She sold six of the goats at sh 110,000 each. Calculate the price at which she should sell each of the remaining goats in order to make a profit of 25%. (*06 marks*)

28. A motorist travelled from town **M** to town **K** at a speed of 75km/h for 2 hours. The motorist stopped to have lunch at town **K** for one hour and then continued to town **L** for another 3 hours. The average speed of the motorist for the whole journey was 55km/h. Calculate the distance from town **K** to town **L**. (*05 marks*)

Turn Over

29. The points A ($^{-}2$, $^{-}1$), B (0, 1) and C (4, 1) are three vertices of a parallelogram ABCD.

(a) Plot the points A, B and C on the grid below. (*03 marks*)



(a) Locate and state the coordinates of vertex D of the parallelogram.

(*01 mark*)

(b) Join the points A, B, C and D to form the parallelogram.

(*01 mark*)

30. Using a ruler and a pair of compasses only;

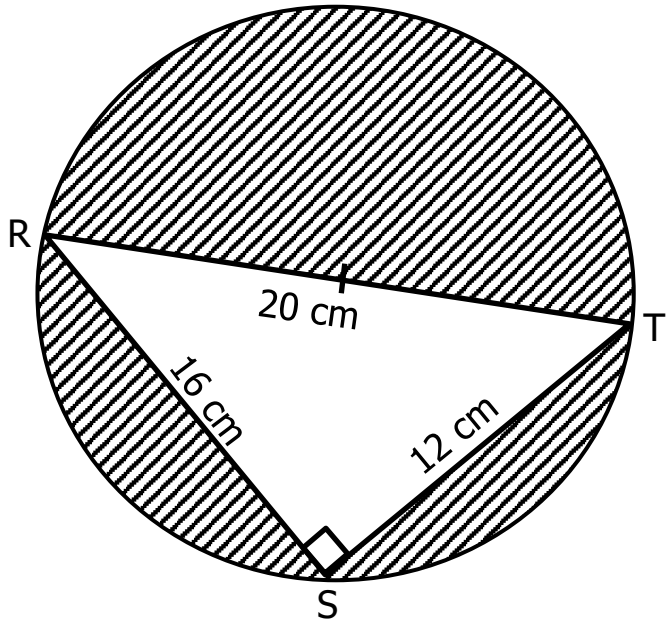
(a) Construct triangle **LMN** in which line **LM = 6.5 cm**, angle **NLM= 45°** and angle **LMN = 60°.** (*04 marks*)

(b) Construct a perpendicular line from **N** to meet line **LM** at **k**.

(*01 mark*)

31. A right-angled triangle RST was cut out of a circular paper. The side of the triangle RS = 16 cm, ST = 12 cm and RT = 20 cm. The side RT of the triangle was cut through the centre of the circular paper.

Study and use the diagram to answer the question.



Turn Over

(a) Find the area of the paper that remained after cutting out the rectangle. (Use π = *3*.14) (*06 marks*)

32. A man gave part of his land to his three children; Janat, Adam and Moses. Janat got $\frac{3}{8}$, Adam got $\frac{2}{5}$ and Moses got $\frac{1}{3}$ of the land.

Determine which one of the children got the largest share of the land. (*05 marks*)

END