GULU CITY SCHOOLS

PRE-PRIMARY LEAVING EXAMINATIONS 2024

MATHEMATICS

Time allowed: 2hours 30 minutes

Index No.	Random No.						Personal No.		

Candidate's name: .....

Candidate's Signature: .....

School Random No. .....

District ID: .....

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**. This paper has **12 pages** printed altogether.
3. Answer **all** questions. All the 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".**

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		

Turn Over

SECTION A (40 MARKS)

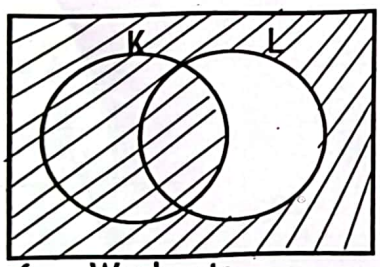
1. Work out:
$$\begin{array}{r} 7\ 3\ 2 \\ -\ 2\ 5\ 4 \\ \hline \\ \hline \end{array}$$

2. Write 12,693 in words.

3. Simplify: $^{-}7 - {}^{+}3$

4. Express 96 in Roman numerals.

5. Describe the shaded region in the figure below.



6. Workout:
$$\begin{array}{r} 2\ \ 1 \\ -\ 3\ 4 \\ \hline \end{array}$$

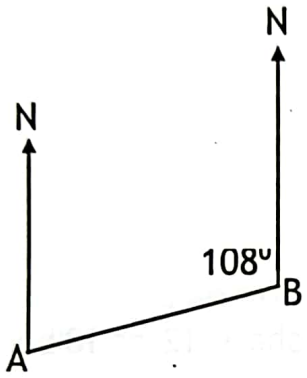
7. Find the next number in the sequence:

$^{-}11,\ \ ^{-}8,\ \ ^{-}5,\ \ ^{-}2,\ \_$

8. Find the solution set for $6 - 3p \leq 15$.

9. Write 8032 in standard form.

10. Find the bearing of A from B in the figure below.



11. Given that a = 3n, b = ⁻4 and n = 5. Find the value of $n(□ - □)$.

12. A staff meeting that lasted $1\frac{3}{4}h$ ended at 11:00a.m. At what time did it start?

13. Using a ruler and a pair of compass, construct an angle of 75^0 in the space below.

14. 6 men can repair a road in 4 days. How long will 8 men take to do the same job?

15. Find the highest number of pupils that can share 12 or 18 books without a remainder.

16. A football tournament that lasted 30 days started on Tuesday. On which day did it end?

17. A bag contains 8 blue and 6 black pens. Find the probability of choosing at random a black pen.

18. Joan bought 750ml of cooking oil. Express the quantity she bought in litres.

19. A trader sold an article at sh. 37,600 and made a loss of sh. 6,000. Find the cost price of the article.

20. The area of the shaded part in the figure below is $1760cm^2$.

Calculate its radius (Take π as $\frac{22}{7}$)

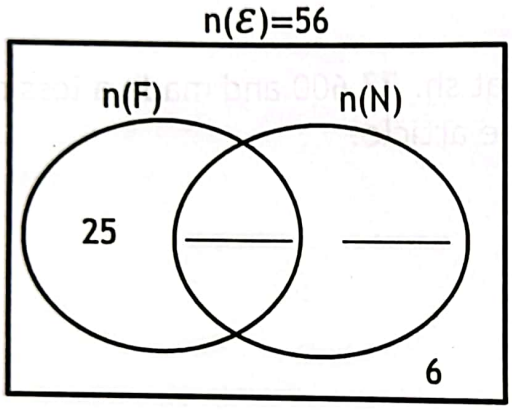
SECTION B (60 MARKS)

21.a) Convert 415_{six} to base four. (3 marks)

b) Given that $305_n = 161_{eight}$, find the value of n. (3 marks)

22. In a group of 56 people, 38 play football (F), 2d play netball (N) only. Some play both games while 6 play other games.

a) Use the above information to complete the venn diagram below. (2 marks)



b) How many people play netball? (3 marks)

23. The average of 3 consecutive odd numbers is 7. If the largest number is K;

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

b) Workout their range. (1 mark)

24. Amodoi went shopping and bought the items as shown in the table below.

a) Complete the table. (4 marks)

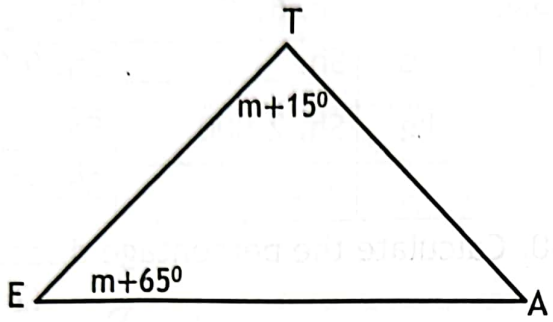
Item	Quantity	Unit cost	Amount
Wheat flour	3kg	Sh. 6,300	Sh. _____
Cooking oil	1 ½ litres	Sh. _____	Sh. 9,900
Tea leaves	kg	Sh. 2,000	Sh. _____
Total			Sh. 32,800

b) If he paid sh. 31,160. Calculate the percentage discount he was offered. (2 marks)

25. a) Express 0.4333- - - - to a common fraction in its lowest terms. (2 marks)

b) Work out: $\frac{0.096}{0.4 \times 0.3}$ (3 marks)

26. In the triangle below, ∠TEA is thrice angle ETA.



a) Find the value of m. (2 marks)

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

27. A hen costs $\frac{1}{3}$ the cost of a cock and a turkey costs sh. 8,000 more than a cock. If their total cost is sh. 64,000. Find the cost of each fowl. (5marks)

28. Amos fenced his semi-circular flower garden below using poles planted at intervals of 90cm.

a) Find the number of poles he used (Take π as $\frac{22}{7}$) (3 marks)

b) If a pole costs sh. 8,200, find the total cost of fencing the garden. (2 marks)

29. A farmer divided his land such that 40% of the land is covered with bananas, 14 acres are covered with coffee while 16 acres are used for grazing.

a) Find the total number of acres on the land. (3 marks)

b) What percentage of the land is used for grazing? (2 marks)

30. The time table below shows the route taken by a bus from Kampala to Soroti.

Place	Arrival	Departure
Kampala		8:30 a.m
Jinja	9:30 a.m	9:45 a.m
Iganga	10:15 a.m	10:30 a.m
Mbale	12:00 noon	12:15 p.m
Bukedea	12:50 p.m	1:20 p.m
Soroti	2:30 p.m	

a) Express the time the bus reached Bukedea in 24h clock system. (1 mark)

b) How long did the bus take to travel from Jinja to Mbale? (1 mark)

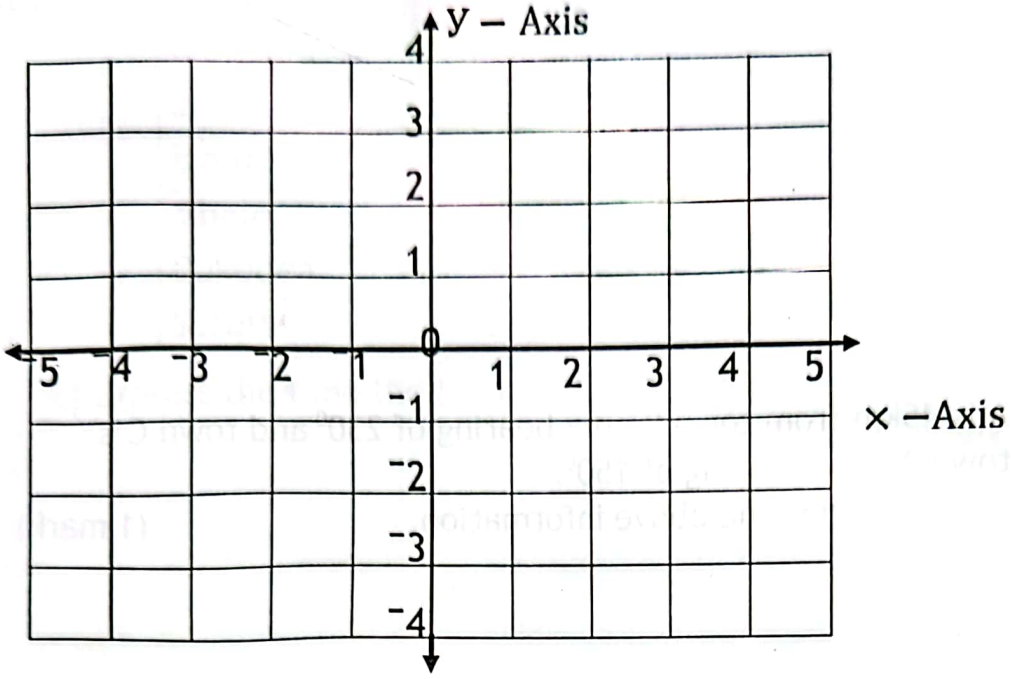
c) If Soroti from Kampala is 318km, calculate the average speed of the bus in km/h. (3 marks)

31. Town A is 45km from town B on a bearing of 230^0 and town C is 54km from town A on a bearing of 150^0.

a) Draw a sketch showing the above information. (1 mark)

b) Using a scale of 1cm to represent 9km, draw an accurate figure showing the above places. (4 marks)

32. a) On the coordinate graph below, plot the following points;
A ($^{-}3$, 1), B ($^{-}1$, $^{-}2$), C ($^{-}1$, 4), D (5, 1) (4 marks)



b) Join the points A to B, B to C, C to D and D to A and find the area of the figure formed. (1 mark)

END