UGANDA MUSLIM TEACHERS' ASSOCIATION

UMTA JOINT MOCK PRIMARY LEAVING EXAMINATIONS 2024

MATHEMATICS

2 HOURS 30 MINUTES

INDEX NUMBER									

CANDIDATE'S NAME.....SIGN.....

SCHOOL.....DISTRICT.....

Instructions to candidates:

Do not open this Booklet until you are told to do so.

- The paper has two Sections **A** and **B**.
- Answer all questions sections **A** and **B** in the spaces provided.
- All answers must be written in Blue or Black pen or Ink.
- Unnecessary changes (crossings) or alternation of answers may lead to loss of marks.
- Any handwriting that cannot easily be read may lead to loss of marks.
- The use of calculators or other mathematical tables is not allowed.
- Do not fill anything in the boxes indicated for "**Examiners use only**"

FOR EXAMINERS' USE ONLY

QN.	MARKS	INITIA
SEC A		
1 – 05		
06 – 10		
11 – 15		
16 – 20		
SEC B		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
TOTAL		

SECTION A (40 marks)

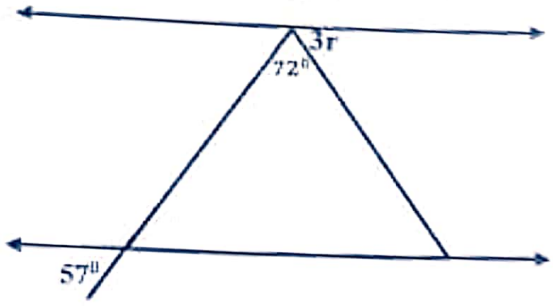
1. Work out: 7 5 9
   − 4 3 4

2. Write "Forty-four thousand, forty-eight" in figures.

3. Given that $a = 2$ and $b = -3$, find the value of $2a^2 - b$

4. Simplify $\frac{4}{12} \div \frac{3}{10}$

5. Find the value of r in the diagram below.



17. A cyclist rides a bicycle at an average speed of 16km/h. for one hour and thirty minute. Calculate the distance the cyclist covered.

18. Simplify $(4q - 6) - (3q - 8)$

19. Kato was given Sh.1500 for lunch. Two people were demanding him some money, if he paid the first one Shs 500 and the second one Shs 200 more than the first one. Find the amount of money Kato remained with.

20. Find the number of strides of 30cm can a builder make to cover a distance of a building 45 metres high.

6. Given that set P= (a, b, c, d) and set Q= (a, r, b, d, n). Find n(Q-P).

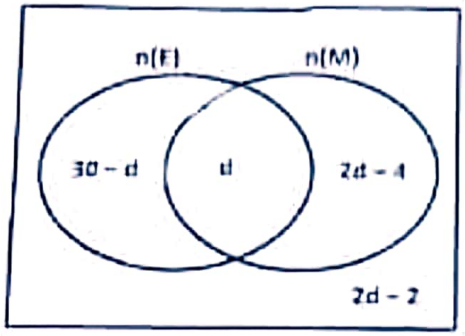
7. Find the number of packets of tea leaves each weighs 450 grammes can be obtained from 6 boxes each weighing 22.5kg.

8. Work out the median of the given numbers -3,5,1,3,0 and 6.

9. Find the value of d. 3 – 5 = d (finite 7)

SECTION B (60 MARKS)

21. In a class, $2d-4$ pupils like Mathematics **(M)** only, **d** pupils like both Mathematics and English **(E)** ,$30-d$ pupils like English **(E)** only while $2d-2$ pupils like neither Mathematics nor English.Study the Venn diagram below and answer the questions that follow.



(a) Find the value of **d**, if **n(EUM)=36.** (02 marks)

(b) Work out the number of pupils who do not like English at all. (02 marks)

(c) Find the total number of pupils in the class. (02 marks)

22. (a) Find the quotient of the value of 3 and the value of 5 in the number 3458. (03 marks)

(b) Expand 103_{five} using place values. (02 marks)

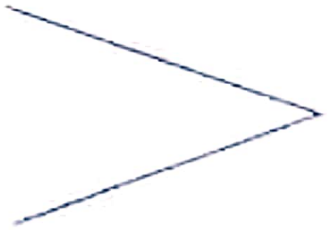
23. (a) Find the principle that will amount Sh.138,000 at a rate of 5% per year for 3 years. (03 Marks)

(b) Find the simple interest after 3years. (02 Marks)

10. Find the sum of the first 4 natural even numbers.

11. Express 17:45 hours as a 12-hour clock.

12. Using a pair of compasses, a ruler and a pencil only bisect the reflex angle in the diagram below



13. Find the value of 2 in 3241_{five}.

26. (a) Complete the shopping table bill (04 marks)

Item	Quantity	Unit cost	Amount
Beans	2 kg	Sh.4000 per kg	Sh.....
Peas	.....kg	Sh.5000 per kg	Sh.1,400
Soya beans	2 ½ kg	Sh..... per kg	Sh.7,500
Total Expenditure			Sh.....

(b) If Martha paid Sh.16,700, find the discount she received. (02 marks)

27. A worker spent $\frac{2}{7}$ of his salary on Monday, $\frac{1}{2}$ of the remainder on Wednesday and the rest on Friday. If he spent sh.18,000 on Friday, find the worker's salary.
(05 marks)

12. A fisherman left town **P** and travelled 50km west wards to town **Q** He then turned on a bearing of 320° and travelled to town **R** which is a distance of 65km.

(a) Using a scale of 1cm to represent 10km, draw an accurate diagram for the fisherman. (04 marks)

(b) Find the shortest distance between towns **P** and **R** in Km. (01 mark)

END

6. Given that set P= {a, b, c, d} and set Q= {a, r, b, d, n}. Find n(Q-P).

7. Find the number of packets of tea leaves each weighs 450 grammes can be obtaine from 6 boxes each weighing 22.5kg.

8. Work out the median of the given numbers -3,5,1,3,0 and 6.

9. Find the value of **d**. 3 – 5 = **d** (finite 7)

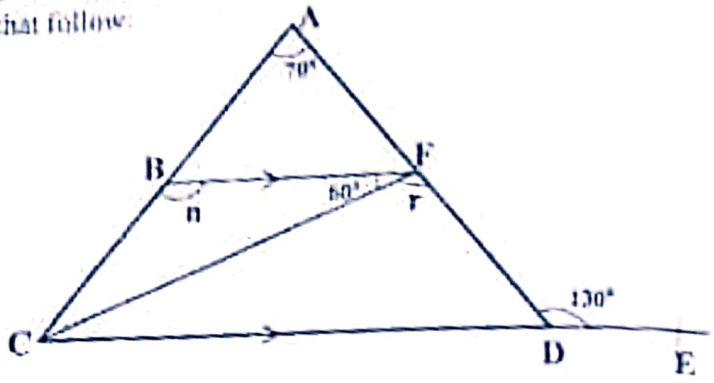
28. Below is a timetable for the taxi travels from Gulu to Kampala

Town	Arrival time	Departure time
Gulu		8:45am
Karuma	9:25am	9:35am
Luwero	10:20am	10:40am
Kampala	12:15pm	

(a) Write the time the taxi arrived Kampala in 24-hour clock. (02 marks)

(b) If the taxi travels at an average speed of 60km/h. Find the distance from Kampala to Gulu.
(03 marks)

29. In the diagram below, **BF** is parallel to **CD**. Study the diagram and answer the questions that follow:



Find the size of :-

(i) angle **r** (02 marks)

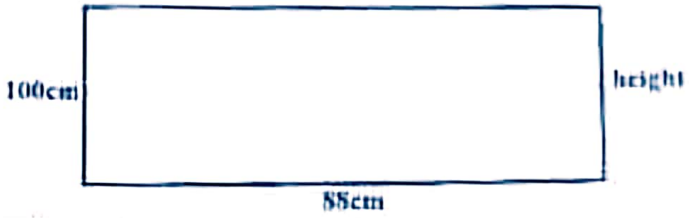
(ii) angle **n**. (02 marks)

30. The table below shows the marks scored by pupils in a P.7 class for mock exams.

Marks	40	r	60	70
No of pls	///	//// /	///	//

If the mean mark was 55, find the value of **r**. (04 marks)

31. The figure below is a rectangular metal which is to be folded into a hollow cylinder.



(a) Find the volume of the cylinder. (04 marks)

(b) Work out the capacity of the cylinder. (01 mark)

14. Work out the lowest common multiples (L.C.M) of 12 and 15.

15. Two-thirds of the class was present on Friday last week. $\frac{1}{4}$ of it was girls. Find the fraction of boys present.

16. The weight of a supervisor in a company in 75kg.When one worker joins the three workers, the average weight of the supervisor and workers becomes 50kg.Find the weight of the workers.