

# GULU DISTRICT EXAMINATIONS COMMITTEE PLE-MOCK EXAMINATIONS 2023

## MATHEMATICS TIME ALLOWED: 2HOURS 30MINS

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CANDIDATE'	S NAME:			1 bn@ (8.4	(1,2,3,
CANDIDATE'	S SIGN:			7	
SCHOOL NAM	AE:				
DISTRICT:				100	

## DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

Read the following instructions carefully:

#### INSTRUCTIONS

- 1. This paper has two sections: A and B.
- 2. Section A, has 20 questions (40 marks).
- 3. Section B has 12 questions (60 marks).
- 4. All answers must be written using blue or black pen except drawings to be done in pencil
- 5. Unnecessary crossings or changes may lead to loss of marks
- 6. Any handwriting that can not be easily read may lead to loss of marks.
- 7. Do not fill anything in the boxes indicated for examiners use only.
- 8. The use of electronic calculators and mathematical tables is not allowed.

	EXAMINERS USE	ONLY
QNS	EXAMINERS MARKS	EXAMINERS INITIALS
1-5	6/4/12	
6 - 10	7 19	
11-15		
16-20	7	
21-22	2000	
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

# SECTION A (40 MARKS)

1. Work out: 8 9 - 3 5

2. Write 6093 on words.

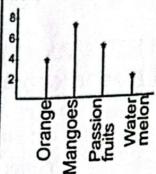
3. Given that set F={2,4,5,6,7} D={1,2,3,4,5} Find: F-D

4. Find the next number in the sequence

29, 25, 21, 19,\_\_\_

5. Simplify 41/4 of 11/3

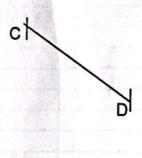
The line graph below shows number of fruits a trader sold one day.



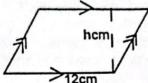
How many fruits were sold by the trader that day.

7 Simplify 2m + 2n+3m - 5n

8. Using a ruler, pair of compasses and a pencil only, drop a perpendicular bisector of line CD passing through point Y.

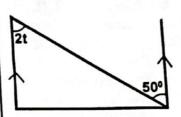


9. The area of the below figure is 60cm<sup>2</sup> Find the value of h.



 It took Mewa bus 3 hours to travel from Gulu to Kigumba at 72K PH.
 Calculate the distance from Gulu to Masindi.

10. Convert 1305hours to twelve hour clock.



13. Find the value of t.

11. A candidate bought 12 mangoes at sh.6000. He sold each mango making a loss of sh.100. How much money did he get after selling all the mangoes?

14. Find the least number of books which when shared among six or eight pupils, 5 books will remain.

15. Maria will celebrate her birthday next year. Find the probability that she will celebrate her birthdays in a month that has thirty days.

18. The temperature on top of Mt. Wati in the morning was -23°C. At midday, the temperature rose to 7°C. Calculate the temperature range.

16. Divide 0.06 + 0.2

19 Work out:

1 1 0 0 wo
+ 1 1 1 wo

20. Set P has 31 proper sets. How many elements has set P?

17. Electric poles are fixed 75metres apart in a straight line. How many poles can be fixed in a distance of 7500metres?

## SECTION B

21. Juliana want to a shop and purchased the following items.

2kg of rice oif sh.4800 per kg

1½kg of sugar at shs.5000 per kg

500ml of cooking oil at sh.7000 per litre

(a) If on each item, she was allowed a discount of shs.300, how much money was paid by her?

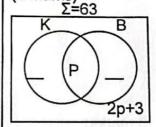
(b) Calculate her change if she went with shs.25000

22. Work out:  $\frac{2}{3} \times \frac{3}{5} + \frac{13}{5}$ 

(b) Express 0.6363— as a common fraction in its simplified form.

23. Out of 63 tourists who came to Uganda, 25 tourist visited Bwindi national gam park (B), P tourists visited both game parks and 2p+3 tourists did not visit any of the two game parks.

(a) Complete the venn diagram below. (2 marks)



(b) Find the number of tourist who visited both game parks. (2 marks)

(c) If each tourist who visited Murchison falls National game park only paid shs.30,000, how much money was collected from them?

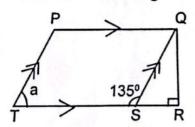
(a) Calculate the size of angle marked a in degrees. (2 marks)

24. (a) Find the solution set for the inequality a - 3 < 7 (3marks)

26. The interior angle of a regular polygon is thrice its exterior angle. Calculate the interior angle sum of the polygon. (5 marks)

(b) Solve  $2k^2 + 4 = 22$  (3 marks)

25. In the diagram below, line PQ is parallel to line TR. Line SR=6cm, SQ=10cm and angle TSQ=135°.



27. The timetable below shows the journey of a bus from Pakwach to Yumbe via some town. Use it to answer the questions that follow.

Destination	Arrival	Departure
Pakwach		6:30am
Nebbi	7:40am	8:00am
Arua	9:00am	9:30am
Koboko	11:00am	11:20
Yumbe	12:50pm	

Nebbi to Arua. (1mark)	while 1 of the boys are day scholars.
	60% of the pupils are girls. There are 10 boys who are day scholars.  (a) How many pupils are in the class?  (4marks)
	100
	And the second of the second o
	en e
(b) If Nebbi is 35 kilometers from Pakwach. Calculate the speed of the bus from	(b) Find the number of girls who are borders. (1mark)
Pakwach to Nebbi. (2marks)	
	• 10
	· · · · · · · · · · · · · · · · · · ·
	29. A cylindrical tin of radius 7cm contains
(c) Calculate the distance from Pakwach to	
Yumbe if the average speed of the bus for	
whole journey is 60km/h. (3 marks)	(a) Calculate the height of the remaining
	cooking oil in the tin. (3 marks)
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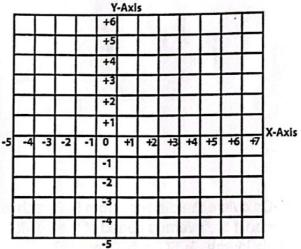
(b) I	f 0.616 litres of cooking oil was poured
in a	rectangular tin with a base area of
the t	n². Find the height of the cooking oil in in. (2 marks)
410	Called Artifact Called Angles of the Paris of the
	oy How wanty published the charge of the charge?

31. (a) Solve for P: P+4=2(finite 5) (2marks)

(b) If today is Wednesday 5th July, 2023, what day of the week will it be 21st September, 2023? (3 marks)

30. (a) Using a ruler, pencil and pair of compasses only, construct quadrilateral PQRS where PQ=RS=8cm, PR=QS=5cm, angle RPQ=60° and angle SQP=120°. (4 marks)

32. (a) Plot the points A(-2 + +2), B(-2, -2), C(+2 + +2) and D(+2 - -2)on the coordinates graph bellow. (2marks)



(b) John point A to B, B to C, C to D and D to A. (1 mark)

(c) Calculate the area of the figure formed. (2marks)

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(1 marks)

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