

ARCHDIOCESE OF MBARARA PRE-P.L.E EXAMINATION 2024 MATHEMATICS

Time allowed: 2 hours 15 minutes

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Candidate's name:			
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Read the following instructions carefully:

The paper has two sections: A and B

- 1. Section A has 20 questions (40 marks)
- 2. Section B has 12 questions (60 marks)
- Answer ALL questions. All answers to both sections A and B must be written in the spaces provided.
- 4. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
- 5. Unnecessary crossing of work may lead to loss of marks.
- Any handwriting that cannot be easily read may lead to loss of marks.
- Do not fill anything in the boxes indicated;For Examiner's use

FOR E	XAMINER ONLY	'S USE
Qn. No	MARK	SIGN
Q11. 140	IVIARK	SIGN
1 - 5		
6 - 10		Yes
11 - 15	L 1 9,3	8.4
16 - 20		rigu Till
21 - 22		4
23 - 24	1	
25 - 26	1	
27 - 28	1	
29 - 30	1	
31 - 32		5
TOTAL		101

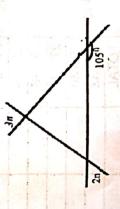
SECTION A

1. Work out: 48 + 8

2. Write "Eighteen-thousand, two hundred forty four" in figures.

3. Given that; Set $P = \{a, b, c, d, e, f\}$ $Q = \{b, a, f, e, h, n\}$ Find n(PnQ) 4.A pupil scored the following marks in a weekly mathematics test as follows 5, 4, 7, 5, 3, and 2. Find the pupil's modal mark.

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



6. Simplify: 4 – 3(2-d)



7. Write a quarter past mid night in 24-hour clock.

8. Workout $(4x10^3) + (5x10^2) + (3x10^{-2})$

9. Show -6++4 on the number line below.

-7 -6 -5 -4 -3 -2 -10 1 2 3 4 5 6 7

10. Write 194 in Roman Numerals.

11. A motorist uses 8 litres of petrol to cover 32km. Find the number of litres of petrol he can use to cover 72km.

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16. Using a pair of compasses, a ruler and a pencil only, construct line AB parallel to line CD 3.5cm apart.

13. Find the next two numbers in the sequence below.
2,5,8,10,12,15,18,_____

2,5,8,10,12,15,18,__,_

14. Find the speed in kilometers per hour that Bukoyo runs around a football field, if he is to cover a

distance of 60km in 90 minutes.

=n and n=4, d=2,

Find the value of 3d(m÷

17. Given that m

18. The L.C.M of two numbers is 72 and their G.C.F is 6, find the second number, if the first one is 18

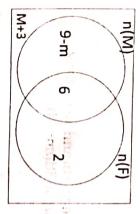
15. Workout: (10.5 x 61) + (39 x 10.5)

19. The cost of one Kenya shillings is equivalent to Uganda shillings 36. Find the cost of 108 Kenya shillings in Uganda shillings.

20. Simplify $\frac{3}{4}$ 9

SECTION B (60 MARKS)

and fish (F) The venn diagram below shows the number of P.7 candidates who eat meat (M)



a) of m If 8 pupils do not eat meat, find the value (02 marks)

- Find the total number of pupils who eat only one type of food and neither (02 marks)
- 22. a) Work out 133_{fre} x 42_{fre} (02 marks)

- Find the probability of picking a pupil who eats only one type of food (01 mark)
- base two, study it carefully and complete. b) The table below shows addition in

2	1	0	+
10		0	0
	10	1	1
100	11		2
		(Oo marks	103

			23
ang	ang	pol	a
angle. (03 marks)	de.	ygo	The
03	Fin	n is	in
ma	d t	100	teric
rks	ne s	B	or a
_	angle. Find the size of each interior	polygon is 100° more than its exterior	23. a) The interior angle of a regular
	of e	tha	of,
	ach	n it	a re
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	7	ō.	

24. weight of Phillip. the group, the average weight became 52kg. The weight of Phillip . The average weight of four men. Mudi, Medi, Musa and Abdul is 56kg, when Phillip and James joined is 8kg less than James. Find the

(05 marks)

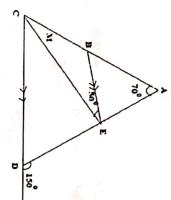
<u>5</u> Find the interior angle sum of the polygon. (02 marks)

25. Mariam went for shopping and bought the following items as shown in the

macket ma	Sh	5	enditure	Total Expenditure
A STATE OF THE STA	Sh	Sh. 3000 per half litre	2500ml	Cooking oil
in to the	Sh. 3000	ShPer kg	2 ¹ / ₂ kg	Rice
	Sh. 2500	gms Sh. 5000 Per kg	gms	Sugar
	Sh	Sh. 4800 per kg	3kg	Posho
	Amount	Unit cost	Quality Unit cost	Items
(05 marks)	table.	table below. Complete the shopping bill table.	low. Compl	table bel

26. months. Find the total amount of money she would pay at the end of 2 years and 6 10% per annum for 2 years and 6 months, if she paid an interest of sh 18,000. A business woman borrowed some money from the Bank at a simple interest of (05 marks)

27. Study the diagram below and answer the questions that follow.



a) Find the value of m

(02 marks)

b) Calculate the size of the angle marked DEB

(02 marks)

- Below is a time table for the bus

	12:15pm	Mbarara
10:40am	10:20am	Bujaga
9:35am	9:25am	Ntungamo
8:45am		Kabale
time	time	P
Departure	Arrival	Town
travels from Kadale to Mbarara.	rom Kabale	travets i

Find the total time taken while resting. (03 marks)

b) Find the average speed for the whole journey, if the distance from Mbarara to Kabale is 175km (03 marks)

29. (a) Given that a = 4 and b = -3, find the value of, $\frac{4a-3b}{2a+b}$ (03 marks)

b) Solve 3-(n-1) =2(n+5)

(03 marks)

30. Study the diagram below and use it to answer the questions that follow.

of h. (02 marks) a) If the water tank is $\frac{2}{3}$ full of water, find the value

b) Calculate the remaining number of litres to fill the whole tank. (03 marks)

D CONT K E

31. Martha, Agatha, respectively. (a) of mangoes they shared If Mary got 120 more mangoes than Martha, find the number Mary shared mangoes in the ratio of 3:5:7 (03 marks)

Calculate the number of mangoes that Martha and Agatha got. (02 marks)

- km from town Q on a bearing of 270°. Town P is 50 km from town Q on a bearing of 135°. Town R is 70
- diagram for the above information. Using a scale drawing of 1cm to represent 10km, draw an accurate (05 marks)

<u>b</u> Find the shortest distance in km from town R to town P

(01 mark)

END