## MBARARA MUNICIPAL SCHOOL PRE-MOCK EXAMINATIONS SET 1 TERM II, 2024. MATHEMATICS

TIME: 2Hours 30:Min.

Index No.	EMIS NO.	PERSONAL NO.	
Candidate's Name:			
Candidate's Signature:			
Section:		Date	<del></del>
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## Read the following instructions carefully:

- 1. The paper has two Sections: A and B.
- 2. Section A has 20 questions (40 Marks).
- 3. 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.
- 5. All answers must be written using a blue or black ball point pen or ink.
- 6. Diagrams should be drawn in pencil.
- 7. Unnecessary alteration of work may lead to loss of marks.
- 8. Any handwriting that cannot easily be read may lead to loss of marks.
- 9. Do not fill anything in the boxes indicated for Examiners' use only.

FOR	R EXAMINERS' US	SE ONLY	
The state of the s	MARKS	T/L MARKS	#
Section A			. 3-
Section B			
Total	-		
Teachers' comments			

PM7/ II-TOB/KS/P6/2024

## SECTION A (40 MARKS)

Answer all questions in this section (Questions 1 to 20 carry two marks each).

1.	Describe the shaded region in the	2. Work out: 10 - 2 x 3
w ha	Venn diagram below.	The state of the s
	D E	
		and the state of t
-	,	was the second of the second o
3	Arrange the integers -6, *5, -3, *2,0	4. Write 9740032 in words.
٥.	in descending order.	
	in accessioning of deri-	
		g
		. '
5.	A Mathematics examination started	6. With the help of a ruler, a sharp
	at 9:45a.m and ended at 12:15p.m.	pencil and a pair of compasses only,
	How long did the examination last?	construct an angle of 120°.
		作 - Partie with e to 機能 と i
	er i	
		1
-7	T	9 Okula hayaht 6 ayns at 5h 12 000
1.	Increase 3600 by 15%.	8. Okuku bought 6 cups at Sh.12,000. Find the number of cups Okuku would
	e ande	buy if he had Sh.8,000.
		\$ 40 AG 1
		An Leaf Co.
	· · · · · · · · · · · · · · · · · · ·	
	10 man 10 mag	A STATE OF THE STA
		· · · · · · · · · · · · · · · · · · ·

9. Find the next number in the sequence 1, 8, 27, 64,	10. Acram harvested 90Kg of simsim and packed it using 750g sachets for sale. Find the number of sachets Acram got.
The state of the s	The state of the s
11. Simplify: 2d - 3c - c + 3d	12. The average mass of 6 boys is 45Kg and the average mass of 4 other boys is 40Kg. Find the average mass of all the boys.
13. Express 60 as a product of its prime factors.	14. Twelve men can take 10 days to complete a piece of work. Find the number of days they will take if the number of men is reduced by four.
5. In a triangle below, find the size of	16. Given that set Q has 31 proper
angle marked P.	subsets, find the number of element
720	in set Q.
P 112°	
	referred to the tests of the property of the party of the

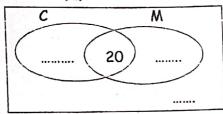
17. Write 945 in Roman numerals.	18. Simplify: <sup>-6</sup> - <sup>-4</sup>
a contract of the second of the	Art for a street
Page 1, Y	
19. In a box containing balls, 8 were	20. Find the least number of pens when
painted blue, 10 were painted yellow	divided among 12 girls or 18 girls
and 6 were painted red. If a ball was	equally leaves 5 pens as a remainder.
to be picked at random, what is the	
chance of picking a yellow ball?	
18	
Section B: (60	) Marks)
21. a) Change 103 five to base three.	b) Given that 23 <sub>t</sub> =101 <sub>four</sub> , find the
(3mks)	value of t. (3mks)
	1 2
	The second of th
22. The exchange rate of United States	
Kenya shillings (Ksh) to Uganda shillin (US\$ 1=Ush.3800	gs are snown below.
Ksh 1 = Ush.32	
	Stephen get from Ush.1710,000? (2mks)
	(=

22.b) If the cost of a phone is US\$ 480, how much would this be in Kenya
Shillings? (3mks)

- 23.At a party attended by 80 guests, 60 guests ate chicken (C), 10 guests ate meat (M) but not chicken, 20 guests ate both chicken and meat while 5d did not eat any of the two types of sauce.
- a) Complete the Venn diagram below.

(3mks)





- b) Find the number of guests who did not eat either chicken or meat. (2mks)
- 24.A bus travelling at a steady speed of 74Km/h left town P at 10:50a.m and reached town Q at 2:20p.m. Calculate the distance between town P and town Q. (4mks)

25.a) Solve the equation; 2(y+3) + 4(2+y) = 44.

(3mks)

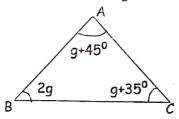
b) Solve the inequality; 3k-1 > 11.

(2mks)

26. Study the triangle below and answer the questions that follow.

a) Find the value of g.

(3mks)



b) Find the size of angle BAC in the triangle above.

(2mks)

27. P.7 pupils obtained the following marks in the End of term one exams.

Marks	90	50	60	80	40
Tallies	//	////	/	///	////

a) Find the mean mark.

(3mks)

7711	The state of the s
21.0)	How many pupils did the examination?
	The many publis and the examination?

(1mk)

28. Ogutu deposited Sh.600,000 in a bank that offers a simple interest rate of  $12\frac{1}{3}$  %p.a. Calculate the amount of money he earned from the bank after 4 years. (5mks)

29. Using a ruler and a pair of compasses only and a sharp pencil, construct a rectangle ABCD where  $\overline{AB}$  = 8cm and  $\overline{BC}$  = 4.5cm. (5mks)

(ii) Measure the length of diagonal AC.

(1mk)

7

30. The total mass	of tins of honey in a
is 250g.	The mass of each tin

- a) Find the number of tins in the box.
  (3mks)
- 31. Four boys Alex, Tom, Abdul and Musa shared Sh.120,000 among themselves in the ratio of 2:3:1:4 respectively. Find how much each boy got. (5mks)

b) Change  $3\frac{1}{2}$  litres to milimelitres. (2mks)

32. The Pie chart below shows how a farmer divided his land.

(a) Find the value of x in degrees.

(2mks)

which the contract of the contract



b) If 14 acres are used for arazino. Find the size of the land the farmer owns. (3mks)