MASAKA UNITED SCHOOLS ACADEMIC **BOARD (MUSAB)**

PRIMARY LEAVING MOCK EXAMINATION - 2023 **MATHEMATICS**

MASAKA UNITED SCI BOARD (N		ACADE	MIC	
PRIMARY LEAVING MOCK EXAMINATION- 2023				
MATHEM	ATICS			
Time: 2hours 3	30 minutes			
School:				
EMIS No. Personal I	No.			
Candidate's Name:				
Candidate's Name:				
Candidate's Signature:				
DO NOT OPEN THIS BOOKLET UNTIL YOU	ARE TOLD	TO DO SO	<u>.</u>	
READ THE FOLLOWING INSTRUCTIONS CAREFULLY	Tro	OR EXAM	NED'S	
	1	USE ON		
1. This paper has two sections A and B.	QN. No.	MARKS	INITIAL	
1. This paper has two sections A and B. 2. Section A, has 20 short questions (40mks) 3. Section B has 12 questions (60marks)	1 - 5			
3. Section B has 12 questions (60marks)	6-10			
4. Answer all questions.	11-15			
5. All answers to all questions must be written in the space provided.	16-20			
6. All answers must be written using blue	21-22		7 L. 7 A. I	
or black ball pen or ink.	23-24			
7. Unnecessary crossing of work will lead to loss of marks.	25-28	-		
8. Any handwriting that cannot easily be	29-30	-		
read may lead to loss of marks.	31-32			
read may lead to loss of marks.	01-02			
9. Do not fill anything in the boxes indicated "FOR EXAMINER'S USE ONLY"	TOTAL		1	
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FOR EXAMINER'S USE ONLY			
QN. No.	MARKS	INITIALS	
1 - 5			
6-10		1	
11-15			
16-20	2		
21-22	1 1 4		
23-24			
25-28			
29-30			
31-32			
TOTAL			

	SECTION: A				
1.	Work out: 13 + 21	2.	Write 39 in Roman numeral.		
		9			
3.	Given set;	4.	Work out: -58		
	Set $P = \{1, 2, 3, 6\}, T = \{1, 3, 5, 7\}$ Find $n(P \cap T)$				
	, <u>.</u>				
	,		•		
5.	Using a pair of compass, and a ruler, construct an angle of 30°	6.	Solve the equation 2 (2x - 1) - 2x - 2) = 8		
	mue. t				
			-		
7.	What number has been written in	stan	dard form to get 8.3 x 10 ⁻² ?		
-	mar and a second second		4.		

8.	The dresses price was decreased in the ratio of 2:5. If the marked price was
	shs. 75,000. What is the new price of the dress?

9. Juma's father had a bundle of 100 notes numbered from AP845201. Find the identifying number of the last note in the bandle.

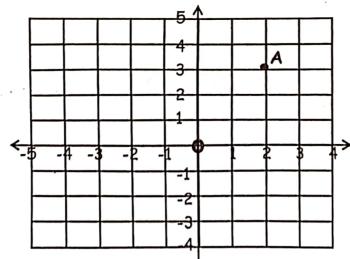
10. Use the clock face below to tell the evening time.



11. How many lines of folding symmetry does the figure below have?

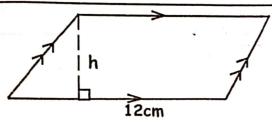


12. Study grid below and answer the questions that follow.



(a) Plot point T (-2, 3) on the grid above.

		(b) Give the cordinates of point A as	13.	Divide 0.45 ÷ 0.3
Γ-		indicated on the above gride.		-
				- 3
	- 1			
1				
í				
	- 1			
	- 1			,
	- 1			
	-			* , ,
	1			,
1	4.	A 50kg sack of sugar was packed in half	kilog	ram packets. Find how many such
		packets were packed to its completion.		
1			•	
		, I *		
;				
-				
;				
1				÷
i				
-	4=			. (()
1	15.	On the Venn diagram below, shade the o	comple	ement of (P - K)
		ε,		
1		K P		
				the state of the s
:				
i				
-				
4	14	A taxi mayad at speed of OOkm/hn in 2	1 hou	na from town A to town P. How
;	16.	A taxi moved at speed of 90km/hr in 2	½ hou	rs from town A to town B. How
	16.	A taxi moved at speed of 90km/hr in 2 far is town A to town B?	½ hou	rs from town A to town B. How
	16.		½ hou	rs from town A to town B. How
	16.		½ hou	rs from town A to town B. How
	16.		½ hou	rs from town A to town B. How
	16.		⅓ hou	rs from town A to town B. How
	16.		½ hou	rs from town A to town B. How
	16.		½ hou	rs from town A to town B. How
	16.		½ hou	rs from town A to town B. How



17. Given that, the area of the figure above is 60cm^2 . Find its height.

18. If today is Wesdnesday. What day of the week was it 38 days ago?

19. Find the next number in the sequence below;

33, 22, 15, 10, 7, _____

20. The table below shows points scored in a P.7 debate between boys and girls as shown below, use it to complete the missing number and tallies.

		Points	Tallies	
Bo	ys	15		
Gir	ıls		HH HH I	

	1'
	SECTION: B
21.	Use the numberline below to answer the questions that follow:-
	<u>Z</u> ∨
	<u> </u>
	-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6
	├
	(a) Write the value of the letters indicated on the arrows. (1mk each)
	(i) Z, (ii) Y
	(iii) X
	(b) Write the mathematical sentence of the above numberline. (2mks)
	(-, -, -, -, -, -, -, -, -, -, -, -, -, -
	•
22.	In a class, 10 pupils like Maths (M) only, (n + 5) like both subjects and (n-3)
	pupils do not like any of the two subjects, 12 pupils do not like Maths.
	(a) Use the above information to complete the Venn diagram below.
	$n(\mathbf{E}) = K \tag{1mk}$
	n(M)
	10 ()
	n - 3
	b) Find the value of n. (2mks) c) Calculate the value of k. (1mk)
	20 at
1	

23. Jesca went shopping with 3 ten thousand shillings and bought the items as shown on the bill. Study it and complete the table if she remained with shs. 4000. (6mks)

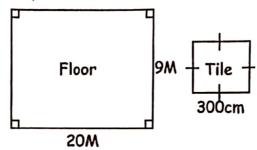
Item	Quantity	Unit cost	Amount	
Sugar	2kg	Shs. 5000@	Shs	
Rice	1 ½ kg	Shs	Shs. 9000	
Tomatoes	15 tomatoes	for every		
		5 tomatoes	Shs. 3000	
Breadleaves		Shs. 4000 per loaf	· · · · · · · · · · · · · · · · · · ·	
		TOTAL		

24. Two tops A and B are connected on a water tank whereby tap A takes 4 hours to fill the tank and tap B takes 6 hours to draw water from the tank. If both taps are left open at the sametime. For how long will it take for the tank to get full of water?

(4mks)

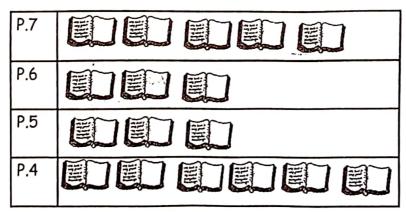
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25. A rectangular floor measuring 20metres long and 9 metres wide is to be covered with square tiles measuring 300cm as shown below.



Calculate the total number of tiles needed to cover the floor. (5mks)

26. The graph below shows the number of Mathematics textbooks that were donated to different classes on speech day.



Scale



20 books

(a) How many books did P.7 get?

(1mk)

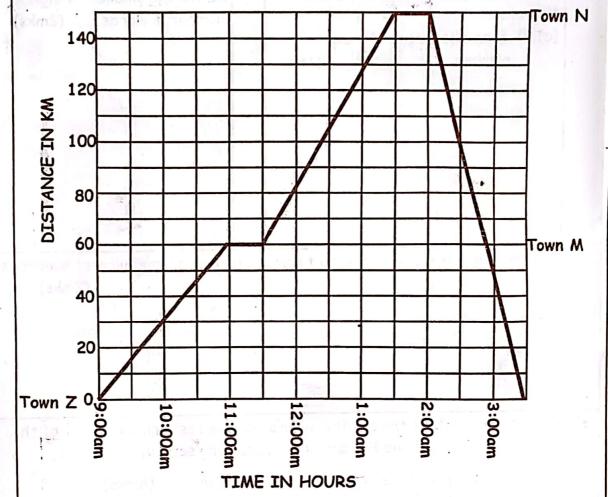
	(b) Which class got the highest number of books? (1mk)
	(c) Workout the average number of books donated for all classes. (3mks)
27.	(a) Sarah is 26 years older than Jane. If their total age is 50 years, how old will Jane be in 3 years time? (3mks) .
	(b) Simplify: 6p - 2t - 3t - 3p (2mks)

29. Using a pair of compasses, a ruler and a sharp pencil only. Construct a triangle ABC where AB = 6cm, <bac (1mk)<="" (4mks)="" (b)="" 60°="" <="" =="" ac="" acb="45°." and="" measure="" th=""><th>1</th><th></th><th>() E </th><th></th><th></th></bac>	1		() E		
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(b) Measure AC (1mk)					•
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(b) Measure AC (1mk)		<u> </u>		,	
			(b) Measure AC		(1mk)

30.	Given the digits 5, 1, 8 and 0 use them to; (a) (i) form the largest 4 - digit number. (1mk)	ii) Write the smallest 4 digit number in words. (2mks)
	(b) Round off the smallest 4 digit numbe	
		(2mks)
		4
31.	In a school, 60% of the pupils are girls a	·
	boys are day pupils and 120 are boys in b	
	(a) How many pupils are in the school alto	ogether? (4mks)
		,
		•
-	(b) How many more girls are there than b	boys? (1mk)
	1.00	
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32. The distance time graph (travel graph) shows Denise's journey from town Z to town N to town N via town M. Use it to answer the questions that follow.



- (a) How far is town N from town Z?
- (1mk)
- (b) How long did Denise take to travel from town Z to town M? (2mks)
- (c) For how long did Denise rest at town N? (1mk)
- (d) At what time did Denise resume her journey after a stop over at town M? (1mk)

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