## MASAKA UNITED SCHOOLS ACADEMIC BOARD (MUSAB)

## PRIMARY LEAVING MOCK EXAMINATION - 2023 MATHEMATICS

Time: 2hours 30 minutes

School:			
	EMIS No.	Personal No.	in the second se
Candidate's N	lame:		
Candidate's S	ignature:		

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

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

- 1. This paper has two sections A and B.
- 2. Section A, has 20 short questions (40mks)
- 3. Section B has 12 questions (60marks)
- Answer all questions.

- All answers to all questions must be written in the space provided.
- All answers must be written using blue or black ball pen or ink.
- Unnecessary crossing of work will lead to loss of marks.
- Any handwriting that cannot easily be read may lead to loss of marks.
- Do not fill anything in the boxes indicated "FOR EXAMINER'S USE ONLY"

F	FOR EXAMINER'S							
	USE ONLY							
QN. No.	MARKS	INITIALS						
1 - 5								
6-10								
11-15								
16-20								
21-22	1 17							
23-24								
25-28								
29-30								
31-32								
TOTAL								

Turn Over

SECTION: A

	SECT.	LOIA	
1.	Work out: 13 + 21	2.	Write 39 in Roman numeral.
	1.5		14 (A) A
			E.
			4.0
3.	Given set;	4.	Work out: -58
	Set P = {1, 2, 3, 6}, T = {1, 3, 5, 7}		7 25 2
	Find n(POT)		Low British and
_		4	Salva the equation
5.	Using a pair of compass, and a ruler, construct an angle of 30°	6.	Solve the equation 2 (2x - 1) - (2x - 2) = 8
	ruler, construct an angle of ou		
	* * * * * * * * * * * * * * * * * * *		
			P. 13.
	1 · · · · ·		
:			
7.	What number has been written in	star	idard form to get $8.3 \times 10^{-2}$ ?
1			
1			
i	C. C.		Bank Mark Mark
t			
137			

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.

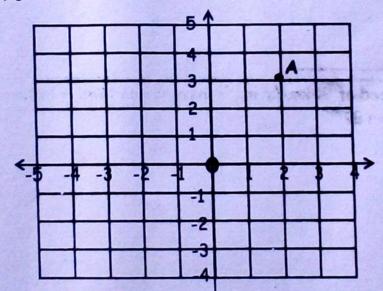
10. Use the clock face below to tell the evening time.



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

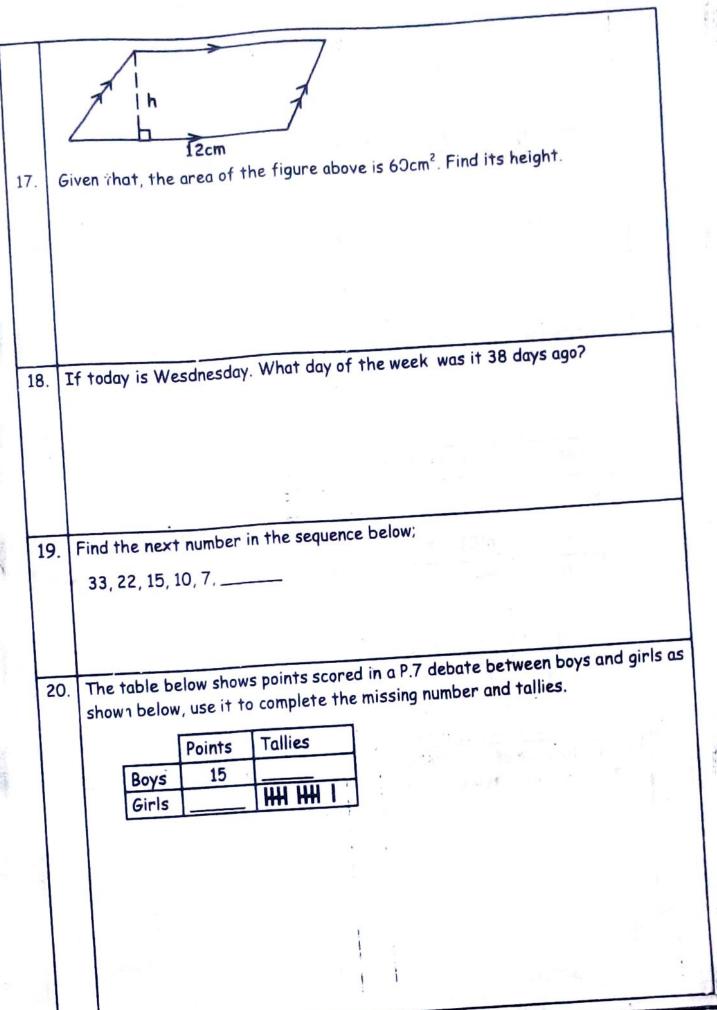


12. Study grid below and answer the questions that follow.



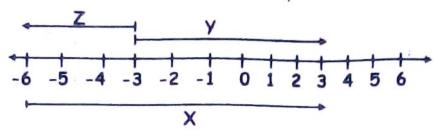
(a) Plot point T (-2, 3) on the grid above.

1:	(b) Give the cordinates of point A as 1	3.	Divide 0.45 ÷ 0.3
i	indicated on the above gride.		5.5
1			
;			
1			
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:	1		
1	1		
1,			5 500 ×
1			•
!		1	
14.	A 50kg sack of sugar was packed in half kill	oar	am packets Find how many such
1	packets were packed to its completion.	- 5.	The new many such
1			
		•	
1			
			,
			8
15.	On the Venn diagram below, shade the	,	
-0.	On the Venn diagram below, shade the comp	len	nent of (P - K)
	. 3		
1	K P		ings of the large of
16.	A taxi moved at speed of 90km/hr in 2 ½ ho	urs	from town A to town B How
	far is town A to town B?		
	1.00		
-	. *		
			<b>^</b>



## SECTION: B

21. Use the numberline below to answer the questions that follow:-



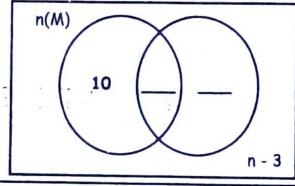
(a) Write the value of the letters indicated on the arrows.

(1mk each)

- (i) Z \_\_\_\_\_
- (ii) Y \_\_\_\_\_
- (iii) X \_\_\_\_\_
- (b) Wr te 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.

$$n(\mathcal{E}) = K$$
 (1mk)



b) Find the value of n. (2mks) c)
If 20 Pupils like Mathematics

Calculate the value of k.

(1mk)

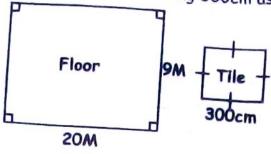
23. Jesca went shopping with 3 ten thousand shillings and bought the items as shown on the bill. Study it and complete the table if she remained with shs. 4000. (6mks)

Item	Quantity	Unit cost	Amount
Sugar	2kg	Shs. 5000@	Shs.
Rice	1 ½ kg	Shs	Shs. 9000
Tornatoes	15 tomatoes	for every 5 tomatoes	Shs. 3000
Bread	IFBASS	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?

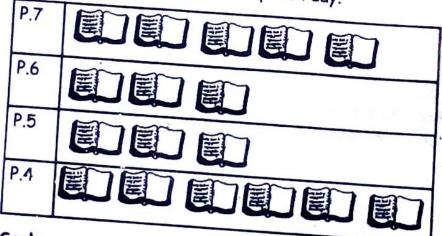
(4mks)

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?

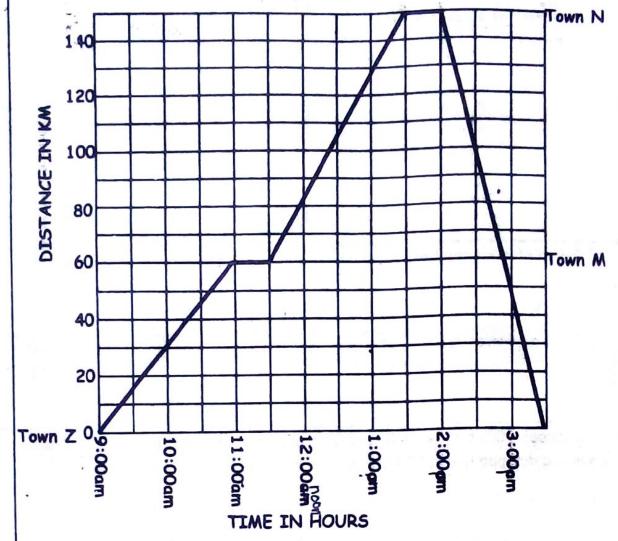
(1mk)

		10		t number of t	ooks?	(1mk	).
							Contract
	1						
	1						
	(c) Worker	1 11					
	(C) WOLKOU	The cver	age numbe	r of books do	nated for	all classes.	(3mks)
							(5,111.5)
27.	(a) Sarah is	26 years a	Iden then	T			
	will Jane be	in 3 years	time?	Jane. If thei	r total age	is 50 years	, how old
		III J VEIII'S	Time?		(3mk	us)	
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	(b) Simplify:			(2ml			
				(2ml			
				(2m)			
				(2ml			
				(2ml			
				(2ml			
				(2m)			
				(2ml			
				(2ml			
				(2m)			

8.	(a) Evaluate:	2 <sup>5</sup> x 2 <sup>2p</sup>	= 32. (3mks)	(b)	Use the distrib workout; (72 ÷	utive property 6) -(30 ÷ 6)	(2mks)
			2 <sup>9</sup> 7				
-							
29.	Using a pair	of compo	asses, a ruler , <bac 60°<="" =="" td=""><td>and and</td><td>a sharp pencil of &lt; ACB = 45°.</td><td>nly. Construct (4mks)</td><td>a triangle</td></bac>	and and	a sharp pencil of < ACB = 45°.	nly. Construct (4mks)	a triangle
	1, 1						
		•					
	10 10		"				

30.	Given the digits 5, 1, 8 and 0 use them to: (a) (i) form the largest 4 - digit number.  (1 mk)	11)	Write the smallest 4 diginumber in words. (2m	ks)
	(b) Round off the smallest 4 digit num	ber	formed to the nearest hun (2mks	dreds.
				78
31	In a school, 60% of the pupils are girl boys are day pupils and 120 are boys i (a) How many pupils are in the school	ח סכ	parally section.	of the
7				
	(b) How many more girls are there the	han	boys? (1mk)	
- English Barbara				

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)