MUKONO DISTRICT EXAMINATIONS BOARD

PRIMARY SEVEN MOCK EXAMINATION 2024

MATHEMATICS

Time Allowed: 2 hrs 30 minutes				
	EMIS No.	ersonal	No.	
•				
Index No.				
Candidate's Name;				
Candidate's Signature :	***************************************			
EMIS No: .				***************************************
School Name :				
District Name :				
Read the following	instructions carefully.			
1. The paper has two Sec	ctions A and B.	FOR EXAM	INERS U	SE ONLY
All workings for both sec shown in the spaces pro	tions A and B must be	QN, NO.	MARKS SCORED	INITIAL -
3. Section A has 20 short of	questions (40 marks).	1 - 5		
4. Section B has 12 question	ons (60 marks)	6 - 10		

6. Diagrams should be drawn in pencils.

pen or ink.

- No calculators are allowed in the examination room.
- 8. Unnecessary alteration of work may lead to loss of mark.

All working must be done using a blue or ball point

- 9. Any hand writing that cannot easily be read may lead to loss of marks.
- Do not fill in the boxes indicated; "FOR EXAMINER' USE ONLY" and those inside the question paper.

QN, NO.	MARKS SCORED	INITIAL -
1 - 5		
6 - 10		-
11 - 15		
16 - 20		
21 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

Turn Over

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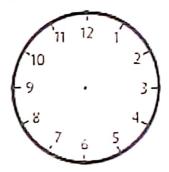


SECTION A: (40 marks)

1. Workout : 9 6 -3 2 6. Simplify: 7 - 3

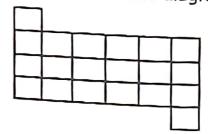
2. Write 2024 In words.

7. Show "Twenty -five minutes to 3" on the 12 hour clock below.



3. Evaluate: $9^{\circ} \div 10^{\circ} - Y^{\circ}$

- 8. The mean of 4, 5, 0, x and 7 is 5. Find the value of x.
- 4. Fill in the missing subsets of set K if K = {r, a, t}
 { }, {r, a}, {a, t}, _____, {a, t}, _____, {r, a, t}, _____, {a}, {r}
- 9. Shade: 3:4 of the diagram below.



Find the next number in the sequence.

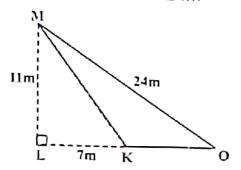
2, 3, 5, 7, _____

MUKONO DISTRICT EXAMINATIONS BOARD P.7 MOCK MATHEMATICS 2024

Page 2

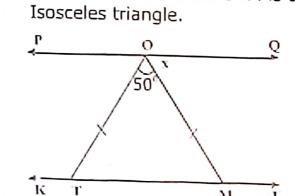
- 10. Achieng is 18 years older than Babirye. Their total age is 48years. How old is Achleng?
- 13. Given that b = ak, a = 3, and k = 4. Find the value of b(2a-k)

 Calculate the area of triangle MKO In the figure below if line LO=15m, LK = 7m and MO =24m



14. The circumference of a circle is 88dm. Find the radius of the circle. (Use $\pi = \frac{22}{3}$)

12. The Highest Common Factors (HCF) of two numbers is 10 and their Lowest Common Multiple (LCM) is 120. If one of the numbers is 40. Find the other numbers.



15. In the figure below, line PQ is

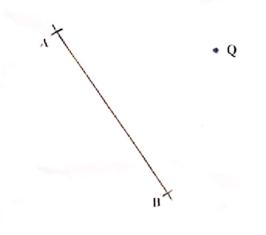
parallel to line KL and OTM is an

Find the size of x.

- 16. Five girls can weed a garden is 8hours. How long will two girls take to weed the garde working at the same rate?
- 19. Solve for y : $3^{y} \times 3^{2} = 27$

- 17. Given that うう represents 8 tomatoes. How many tomatoes are represented by: つうううつ
- 20. Bank notes in a bundle are numbered consecutively from CP6093214 to Cp6093315. If the notes are denominations of ten thousand shilling , how much money is in the bundle?

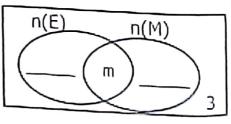
 Using a pencil, a ruler and a pair of compasses, drop a line perpendicular to AB from point Q.



SECTION B: (60 MARKS)

- 21. In a class 15 pupils like English (E) only, m like both Math (M) and English
- (E) . (18+m) like Maths but not English while 3 like neither of the two subjects.
- a) Complete the venn diagram below.

(2marks)

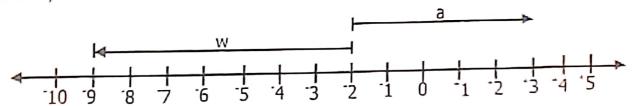


MURONO DIBTRICT EXAMINATIONS BOARD P.7 MOCK MATHEMATICS 2024

Page 4

- ii) If 40 pupils like one subject only. Find the value of m. (2marks)
- III) Find a chance of picking at random a pupil who likes Maths. (2marks)

22. Study the number line below and answer questions that follow.



(2marks)

a) Write down the integers represented by the arrows.

ii)

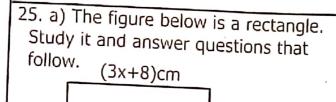
b) Draw an arrow 'q' to complete the sentence on the number line above. (Imark)

c) Work out the additive inverse of the integer represented by arrow marked 'q'.

(1mark)

23. The sum of 4 consecutive multiples of 4 is 104. If the first number is m. What (4marks) are these numbers?

Contract security of the contract of the contr	
24. If $\frac{1}{3}$ of the spectators in a football field	l like Mirinda, $\frac{1}{4}$ of the remainder like
Pepsi while the remaining 30 spectators	
were in the field?	(5marks)



b) Calculate its area.

(2marks)

(5x)cm
a) Find the value of x.

(2marks)

c) Work out its perimeter. (2

(1mark)

26. The sum of the values in the diagram below are the same Horizontally, Vertically, and Diagonally.

			•
31	р	5	25
9	21	k	n
у	13	11	23
7	ın	29	1

Find the value of each of the letters. (5 marks)

27. The table below shows the exchange rate of a Forex bureau.

Currency	Buying	Selling
1 US dollar	3800	4000
1 Pound sterling	4500	4800
1 Kenyan shilling	35	40

MUNONO DISTRICT EXAMINATIONS BOARD P.7 MOCK MATHEMATICS 2024

Page 6



he have in	 Juma was coming from USA with 250 dollars. How much did
(2 marks)	Hands skills
(Zmarks)	Oganoa Shillings.
(2mark	Uganda shillings,

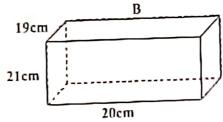
- b) Martha has to send her son's tuition to Britain. She has sh. 2,078, 400 to change. Find the amount of Pound sterling she will get? (2marks)
- c) If one had 1600Ksh, how much would that be in US dollars?

(2marks)

28. Antono, was given a task of packing small cubes (boxes) of type A into his big box B.

a) How many small boxes of





a) How many small boxes of type A will he pack in the box of type B? (2marks)

- b) Calculate the amount of space left after packing? (3marks)
- 29. (a) With the help of a ruler, pencil and a pair of compasses only, construct a rhombus ABCD where AB=5cm and angle DAB=60°. (3 marks)

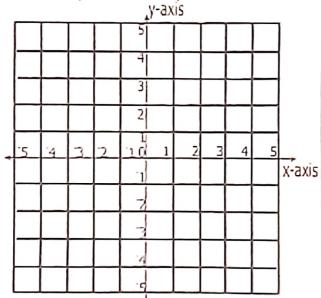
ii) Angle ABC. (Imark)

30.	a) Given that $x = y$	4,	complete
	the table below.		

Х	5	ole bei	0	
У	1	1		6

(b) What is the distance in Kilometres from Kumi to Lira? (1mark)

- (c) For how long did the train stop at Kumi? (1mark)
- b) On the grid below, draw a line for the equation x = y 4 above.



(d) Find the average speed of the train for the whole journey. (2marks)

32. (a) Workout 101_{two} + 11_{two}. (2marks)

31. The table shows a train journey from Tororo to Lira.

UGANDA RAILWAYS

OUNTED TOTAL					
Distance in Km	Station	Departure	Arrival		
from Tororo					
0	Tororo	0800hrs			
56	Mbale	0945hrs	0900hrs		
120	Kumi	1120hrs	1100hrs		
160	Soroti		1300hrs		
270	Lira	1850hrs	1800hrs		

(a) What is the arrival time in Lira on the 12hour clock? (Imark)

(b) Given that $102_y = 27_{ton}$. Find the missing base (3marks)