## MASAKA UNITED SCHOOLS ACADEMIC BOARD (MUSAB)

## PRIMARY LEAVING EXAMINATION SPECIAL MOCK- 2024 <u>MATHEMATICS</u>

Time: 2 hours 30 minutes

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

READ THE FOLLOWING INSTRUCTION'S 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)
- 4. Answer all questions.

- 5. All answers to all questions must be written in the space provided.
- 6. All answers must be written using blue or black ball pen or ink.
- 7. Unnecessary crossing of work will 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 EXAMINER'S USE ONLY"

FOR EXAMINER'S USE ONLY						
QN. No.	MARKS	INITIALS				
1 - 5						
6-10						
11-15						
16-20	a.	e de la companya de l				
21-22						
23-24						
25-28						
29-30						
31-32		,				
TOTAL						

Turn Over

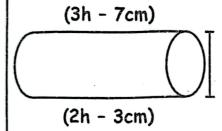
1.	Work out: 40 ÷ 4	1/ 1	Given that Q = $\{2, x, 7, d, 3\}$ and $P = \{5, a, 4, x, 6, c, d\}$ Find n (POQ)
		a	
3.	Write in figures "Two thousand twenty -four"	4.	Find the next two numbers in the sequence below.
			4, 6, 8,, 10,
5.	Work out: -64	6.	A school has a total of 600 pupils, if there are 360 boys. Find the national girls to boys.
And the second of the second o			
7.	The time shown on a clock face in	l a clo	assroom is 10:15 a.m. What time

7. The time shown on a clock face in a classroom is 10:15 a.m. What time will it be after 2 hours 30 minutes?

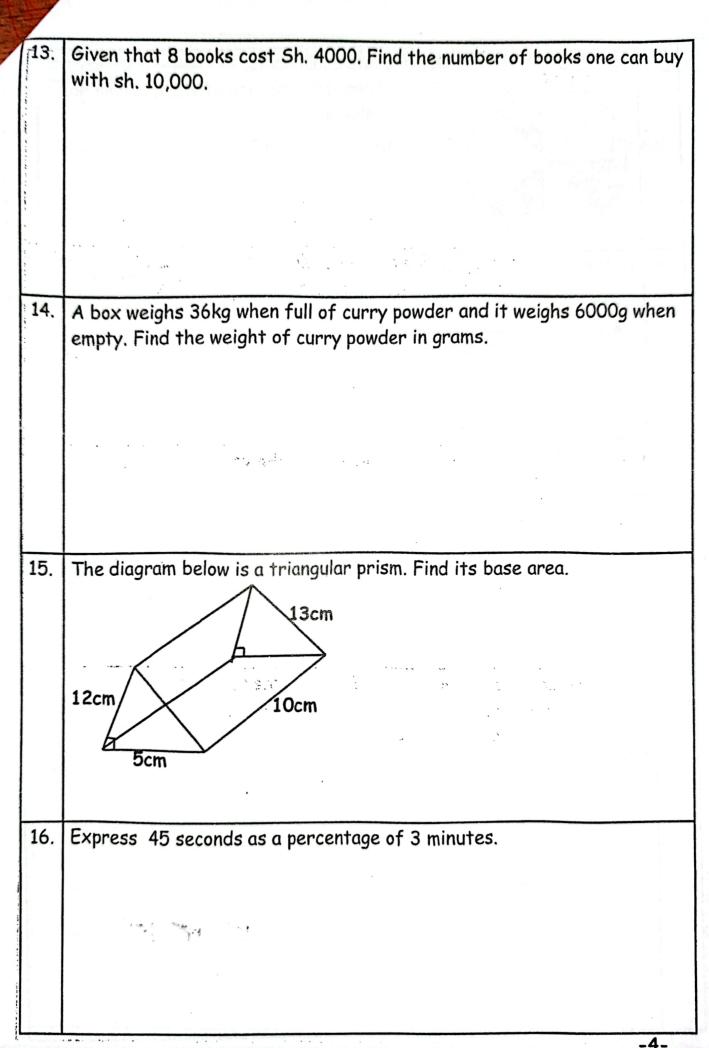
8.	Solve:	P+	p	=	6
1	E 10 1	•			

9. A trader sold a bag of coffee at sh. 600,000 making a loss of sh. 120,000. What was the cost price of the bag of coffee?

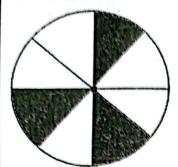
10. The diagram given below is a cylinder. Find the value of h in cm.



- 11. Using a ruler, a pencil and a pair of compasses only, construct the complementary angle of 60°.
- 12. Find the mean of 5,7x,6 and x-3

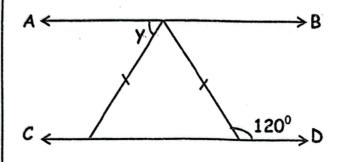


17. The diagram below is devided into equal parts.



Find the fraction of the diagram not shadded

18. In the diagram below AB to DC. Find the value of angle marked y.



19. Work out: 111three + 121three

20. Musa had  $\frac{2}{3}$  of his sugarcane, he gave  $\frac{1}{2}$  of it to his friend. What fraction did he remain with?

## SECTION: B (60 Marks)

- 21. Anita sold a dress at shs. 60,000 to Grace, she realised a loss of sh. 20,000.
  - (a) Calculate Anita's percentage loss.

(3mks)

(b) If Grace sold the same dress to Nandutu at a profit of 15%.

How much did Nantudu pay for the dress? (3mks)

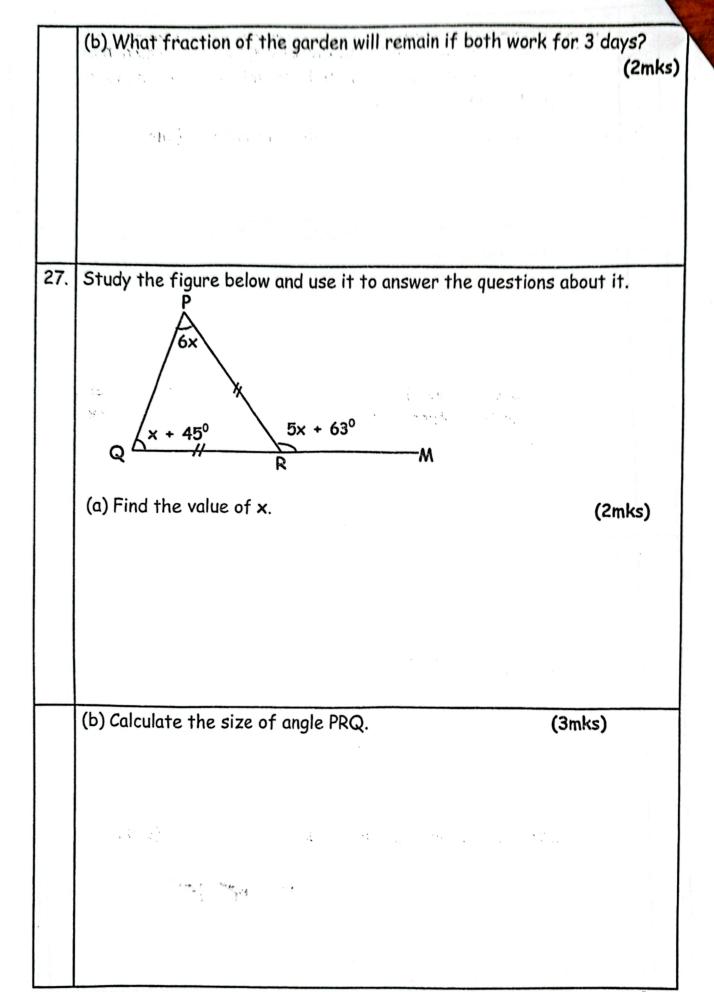
- 22. In a class of 50 pupils, 30 pupils like Mathematics (M), 20 pupils like both Mathematics and English (E). 3k like English only whereas k like none of the two subjects.
  - (a) Use the information to complete the Venn diagram below. (3mks)

$$n(E) = 50$$
 $n(M) = 30$   $n(E)$ 

-6-

	(b) Given that the number of pupils who do not like Mathemat 20. Find the value of k.	ics at all is (2mks)
23.	(a) Construct a parallogram NARO in which NA = 8cm, < NAR AR = 5cm.	= 120 <sup>0</sup> and (4mks)
		-
-		
	(b) Magging diagonal ND -	
24.	A wire of total length 60m was used to make the Edges of the	(1mk) cuboid
	below.  (a) Find the value of h.	(3mks)
	(h)	
	5m 4m	

24.	(b) Calcualate the area of the shaded face.	(2mks)
	in the second of	
2		
25.	The same of the second	1441 1 1 -
20,	The sum of five consecutive odd numbers is 35. If the mp. Find the middle number.	(4mks)
26.	Tom takes 6 days to clear a piece of garden, Stephen take	es 12 days to
	clear the same piece of garden.	
	(a) If both are employed to work together at the same ra days will they take to clear the same piece of garden?	te, how many (3mks)
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	28.	Mpuuga Travelled from Kampala to Masaka at a speed of 60km/h in 3 hours . He then rested at Masaka for an hour and continued to Mbarara at a distance of 130km in 4 hours.
١		(a) Calculate his average speed for the whole journey. (3mks)
		(b) If his car used 5 litres of petrol for every 10km. how many litres of
		petrol did he use from Masaka to Mbarara? (2mks)
	29.	Given 1245 is a number
	29.	(a) Write the number in words. (1mk)
		10.23
		(b) Expand the number using place values. (2mks)
	,	
	2 1 1 4	
	1	
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(d) Express the number in standard form.

(2mks)

30. (a) Given that p = 2, q = 4 and r = 3. Find the value of pq - r. (2mks)

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(b) Solve for a: 4(3 -a) - (8 - a) = 7.

(3mks)

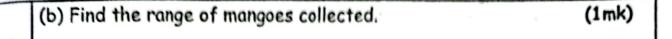
The table below shows the number of mangoes collected by pupils of 31. Ssenyange Education Centre from their garden.

Mangoes per collection	35	50	70	80	90
No. of pupils	2	2	3	1	2

(a) How many pupils collected mangoes from the garden? (1mk)

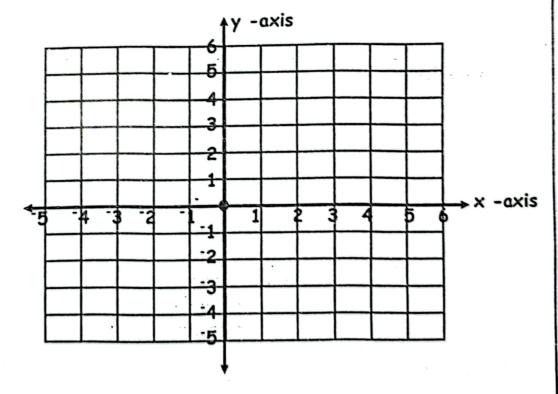
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(c) Calculate the average number of mangoes collected. (3mks)

32. Below is the co-ordinate graph. Use it to plot the points (4mks) P (-3, 2), M(2, 2), R (2, -3), Q (-4, -3)



(b) Join P to M to R to Q to P. (1mk)

(c) Name the figure formed. (1mk)

**END**