

MASAKA UNITED SCHOOLS ACADEMIC BOARD (MUSAB)

PRIMARY LEAVING EXAMINATION SPECIAL MOCK- 2025

MATHEMATICS

Time: 2 hours 30 minutes

School: _____

EMIS No.						Personal No.		

Candidate's Name: _____

Candidate's Signature: _____

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

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

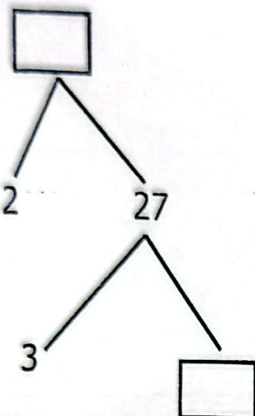
1. This paper has two sections **A** and **B**.
2. Section A, has 20 short questions (40mks)
3. Section B has 12 questions (60marks)
4. Answer all questions.
5. All answers to all questions must be written in the space provided.
6. All answers must be written using **blue** or **black** ball pen or **ink**.
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

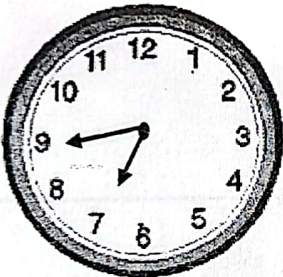
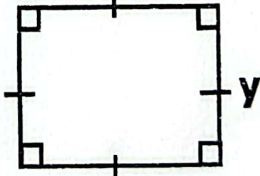
"FOR EXAMINER'S USE ONLY"

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QN. No.	MARKS	INITIALS
1 - 5		
6-10		
11-15		
16-20		
21-22		
23-24		
25-28		
29-30		
31-32		
TOTAL		

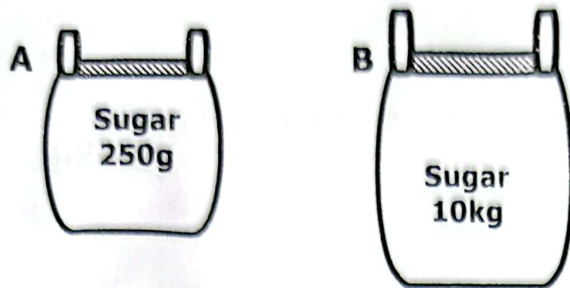
SECTION: A

1. Work out: $147 - 36$	2. Find the value of 8 tens.
3. Fill in the missing numbers in the factor tree below. 	4. Given that set $P = \{ a, b, c \}$ List down all subset in set P.
5. In the diagram below, shade $\frac{2}{3}$ 	6. Using a pair of compasses, a ruler and a sharp pencil, draw a perpendicular line at point T. 
7. Jovia was given sh. 20000 as her pocket money. How many sh. 500 coins can she get as her change?	

8.	Simplify: $8m - 7n + 5n - 4m$
9.	Calculate the additive inverse of -2.
10.	Tell the morning time on the clock face below. 
11.	The average age of 4 children in a family is 5 year. If their ages are 4 yrs, 8 yrs, 3yrs and m years. Find the value of m.
12.	Given that the area of the figure below is 49cm^2.  Find the value of y.

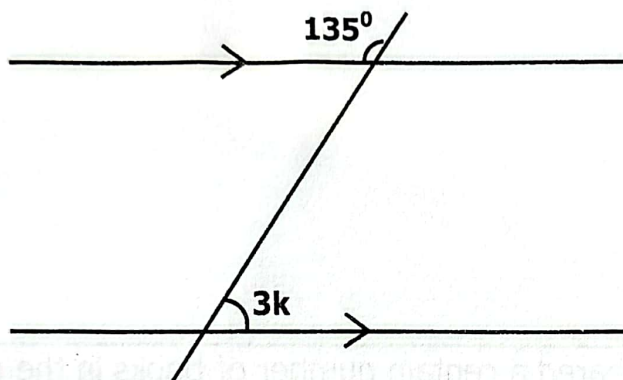
13. Given that set $K = \{0, 2, 4, 6, 8, 10\}$ and set $P = \{\text{all factors of } 20\}$
Find $P - K$.
14. Find the next number in the sequence below
32, 16, 8, 4, _____
15. Increase sh. 30,000 in the ratio of 3:2
16. Joana was given a bundle of 50 bank notes. If the first bank note had an identify number of AP60892. Find the last identity number.

17. Study the packages below and use them to answer the questions that follow.



How many small sackets (A) can be obtained from big sack B?

18. Workout the value of k in the diagram below.



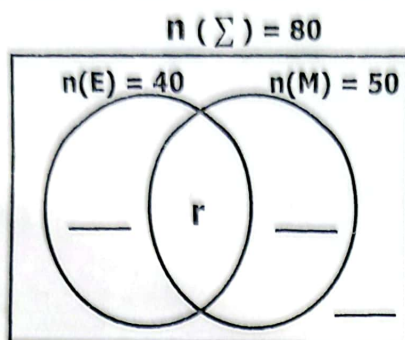
19. Write **CXLII** in words.

20. Tr. John uses 6 litres of petrol to cover 45km. How many litres does he need to cover 30km?

SECTION: B (60 Marks)

21. In a class of 80 pupils, 40 pupils like English (E), 50 pupils like Mathematics (M), r pupils like both English and Mathematics, while 5 pupils like neither Mathematics nor English.

(a) Use the above information to complete the venn diagram below. **(3marks)**



- (b) Find the number of pupils who like both subjects. **(2mks)**

22. (a) Jerom, Joshua and James shared a certain number of books in the ratio of 3:5:2 respectively. If Joshua got 150 more books than James. Find how many books were shared altogether? **(4marks)**

(b) Simplify: $2.86 - 5 + 4.6$

(2mks)

23. A taxi left town R at 9:30a.m, driving at a steady speed of 80km/h for town T in $2\frac{1}{2}$ hours.

(a) At what time did the taxi reach town T?

(2mks)

(b) Calculate the distance between town R and town T.

(2marks)

24. (a) A primary seven Mathematics teacher had a certain number of books, when he distributed them to a group of 6 pupils, 3 books remained, when he distributed them to a group of 5 pupils, 2 books remained and when he distributed them to a group of 7 pupils 6 books remained.

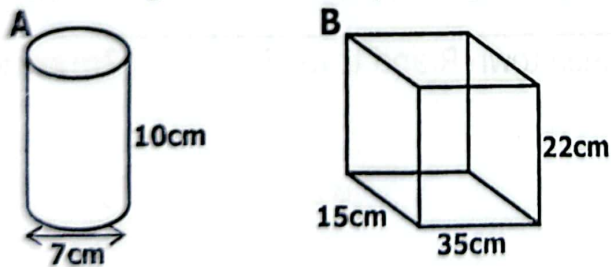
Calculate the total number of books the teacher had.

(4marks)

- (b) Use the distributive property to work out;
 $(19 \div 3) - (10 \div 3)$

(2marks)

25. Musa was given a task of packing tins (A) into a box (B) as shown below.



- (a) Find the number of layers Musa packed in a box.

(2marks)

(b) Calculate the number of tins Musa packed in the box.

(3marks)

26. (a) Given that a book costs thrice as much as a pen, and a ruler costs sh. 500 more than a pen. If their total cost is sh. 3000. Find the cost of a book.

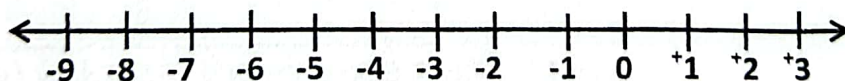
(3mks)

(b) Solve for p; $3(2p - 2) = 4(p + 4)$

(2mks)

27. (a) Workout 4×-2 using a number line below.

(2marks)



(b) Simplify: $7 + 2$

(2marks)

28. Alex went to the market with four 5000 shillings notes and bought the following:-

- 1 $\frac{1}{2}$ kg of G.nuts at sh. 8000/kg
- 20 oranges at sh. 1000 per every 4 oranges
- 500g of tea leaves as sh. 2000 per kg
- Transport to and from sh. 1500

(a) Calculate Alex's expenditure.

(4marks)

(b) Find his change.

(1mark)

29.

Using a pair of compasses, a ruler and a sharp pencil only,
 (a) Construct a triangle ABC where $\overline{AB} = 7\text{cm}$, $\angle ABC = 90^\circ$ and $\angle CAB = 30^\circ$.
(4marks)

(b) Measure $\overline{BC}$

(1mark)

30.

The table below shows a class of 10 pupils and the marks scored in a test.
 Use it to answer the questions.

No. of pupils	3	h	2	1
Marks (%)	80	60	75	90

(a) Find the value of h.

(2marks)

(b) Calculate the average marks scored.

(3marks)

31.	(a) The product of two numbers is 360. Calculate their GCF if their LCM is 45. (3marks)
	(b) Given that prime factors of 90 are $\{ 2_1, n, 3_1, 5_1 \}$. Find the value of n. (2mks)
32.	In a class, 30% of them like Mathematics, 20% of the remainder like English and the rest like other subjects. (a) Calculate the percentage of pupil who like other subjects. (3marks)
	(b) Find the number of pupils in the class if 140 pupils like other subjects. (2marks)

END

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