

KOLFRAM EDUCATIONAL SERVICES KAMPALA

MID TERM ONE EXAMINATIONS 2023

PRIMARY SEVEN

MATHEMATICS

Time allowed: 2 hours 15 minutes

CANDIDATE'S NAME: _____

INDEX NUMBER

--	--	--	--	--	--	--	--	--	--

SIGNATURE: _____

DO NOT OPEN THIS BOOKLET UNLESS YOU ARE TOLD TO DO SO

Read and follow these instructions carefully:

1. The paper has **two** sections: A and B.
2. Section A has **20** questions (40marks)
3. Section B has **12** questions (60 marks)
4. Answer **ALL** questions. All answers to both Sections A and B must be written in the spaces provided.
5. All answers must be written using a blue or black ball point pen or ink.
6. Diagrams should be drawn in pencil.
7. Unnecessary crossing of work may lead to loss of marks.
8. Any handwriting that cannot be easily read may lead to loss of marks.
9. Do not fill anything in the boxes indicated;
For Examiner's use only.

FOR EXAMINERS USE ONLY

QN. NUMBER	MARKS	EXAMINER'S INITIAL
1-10		
11-20		
21-30		
31-40		
41-50		
51		
52		
53		
54		
55		
TOTAL		

COMMENT TO THE CANDIDATE

A PRODUCT OF MUSANA EXAMINATION BOARD

The best performing schools in Eastern Uganda "Shining to Change"

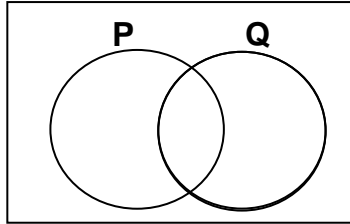
Turn over

SECTION A: (40 MARKS)

1. Work out:

$$\begin{array}{r} 86 \\ - 54 \\ \hline \\ \hline \end{array}$$

2. Shade **P'** on the venn diagram below.



3. Write 3996 in words.

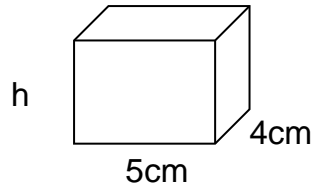
4. Use distributive property to work out. $(2.5 \times 6) + (4 \times 2.5)$

5. A dice is tossed once. Find the probability that a square number shows up.

6. Work out: $\frac{1}{5} \div 5$

7. Simplify: $-8 - -12$

8. The volume of a box is 60cm^3 . Find its height.



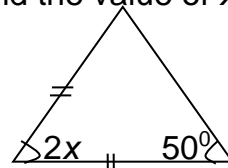
9. Find the next number in the sequence.
27, 25, 26, 24, 25, 23, _____

10. Seven pens cost Sh. 35000. How many pens will I buy with sh. 20000?

11. Namuli started travelling at 8:30 a.m. and reached her destination at 3:45 p.m, how long was her journey?

12. Find the GCF of 18 and 24.

13. Find the value of x in degrees.



14. Express 0.84 km in metres.

15. 12 technicians can paint a school building in 10 days. How long will 15 technicians take to paint the same school building?

16. The table below shows points scored by some teams in volley ball competitions.

Points	10	12	15	20	25	30
Number of teams	5	4	3	1	2	3

How many teams scored less than 20 points?

17. Solve: $4y + 10 = 34$

18. Given that set $A = \{\text{All prime numbers between 1 and 12}\}$. Find $n(A)$

19. Using a ruler, a pencil and a pair of compasses only, construct an angle of 45° .

20. If today is Monday, what day of the week will it be after 37 days?

SECTION B: (60 Marks)

21. Maimuna was sent to the shop with sh. 50000 to purchase items as per the table below.

Item	Quantity	Price per unit	Total cost
Rice	3kg	Sh. 3000 per kg	Sh. _____
Meat	_____	Sh. 8000 per kg	Sh. 24000
Peas	1 ½ kg	Sh. _____ per kg	Sh. 3000
Salt	500gm	Sh. 1000 per kg	Sh. _____
Total expenditure			Sh. _____

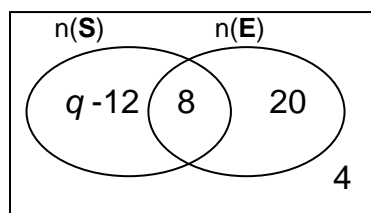
- (a) Complete the table. (1 mark each)

- (b) What change did Maimuna have after purchasing the items? (1 mark)

22. Simplify: (a) $\frac{0.32 + 0.04}{0.9}$ (3 marks)

- (b) $\frac{5}{6} - \frac{1}{2} \div \frac{2}{3}$ (2 marks)

23. The diagram shows P.5 pupils of Natete Muslim primary school who like English (E) and Science (S).



(a) If 30 pupils like Science only, find the value of q . (2 marks)

(b) How many pupils like Science? (1 mark)

(c) How many pupils are in the class? (2 marks)

24. (a) Using a pair of compasses, a ruler and a pencil only, construct rectangle ABCD in which $AB = 8\text{cm}$ and $BC = 6\text{cm}$. (4 marks)

(b) Measure AC (1 mark)

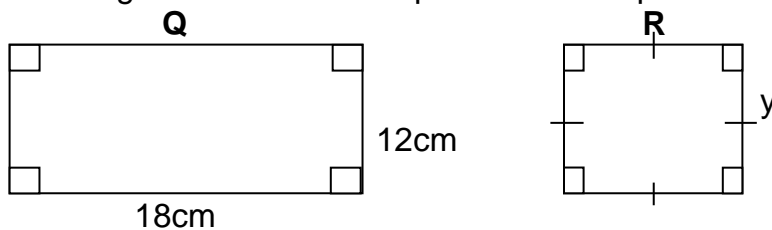
(c) Measure angle CAB (1 mark)

25. The table below shows scores by a group of pupils in a certain class. Study it and answer questions that follow.

Marks scored	80	60	90	70
Number of pupils	2	3	1	4

- (a) How many pupils did the test? (1 mark)
- (b) Find the median mark. (1 mark)
- (c) Calculate the mean. (2 marks)
26. Three bells ring in intervals of 20 minutes, 30 minutes and 45 minutes respectively. If they ring together at 10:30 a.m, when will they ring together again? (4 marks)

27. A rectangle Q has the same perimeter as square R.



- (a) Calculate the value of y . (3 marks)
- (b) Calculate the area of the square. (2 marks)

28. Solve: (2 marks each)

(a) (i) $2x - 4 < 0$

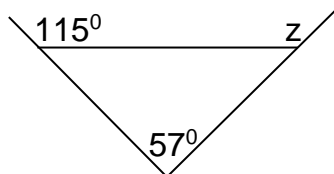
(ii) $1\frac{1}{2}n - 6 = 9$

(b) If $a = 2$, $b = -3$ and $c = 4$. Find the value of $\frac{2bc}{ab}$ (2 marks)

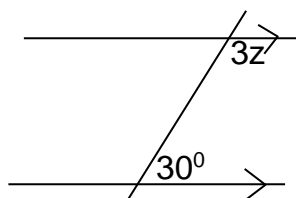
29. (a) A school has 900 pupils, 9% of them are absent. How many pupils are present? (2 marks)

(b) Express $12\frac{1}{2}\%$ as a common fraction. (2 marks)

30. (a) Find the value of z . (2 marks each)



(b)



31. (a) Write 0.00378 in standard form.

(1 mark)

(b) Find the difference between the place value of 9 and place value of 7 in the number 9473. (2 marks)

(c) Change 1101_{two} to base ten.

(2 marks)

32. **Kirabo budgets her monthly income as follows:-**

$\frac{1}{4}$ of it for food.

$\frac{1}{6}$ of it for transport.

$\frac{1}{3}$ of it for rent and the rest for other expenses.

Construct an accurate pie-chart to show Kirabo's budget. Use a circle of radius 4cm. (6 marks)