KOLFRAM EDUCATIONAL SERVICES KAMPALA

THE KOLFRAM EXAMINATIONS BOARD

SET III- PRE MOCK EXAMINATION 2023

PRIMARY SEVEN

MATHEMATICS

Time allowed: **2** hours **30** minutes

Index Number:	**Random Number**						**Personal Number**		

Candidate's Name: _____

Candidate's Signature: _____

School Random Number: _____

District ID Number: _____

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

Read and follow these instructions carefully:

1. Do not write your school or district name anywhere on this paper.
2. This paper has **two** sections: **A** and **B**. Section A has **20** questions and section B has **12** questions. The paper has **7** printed pages.
3. Answer all questions. **All** answers to both sections **A** and **B** must be shown in the spaces provided.
4. All answers must be written using a **blue** or **black** ball point pen or ink. Any answer written in pencils other than on graphs and diagrams will not be marked.
5. No calculators are allowed in the examination room.
6. Unnecessary changes in your work and handwriting that cannot easily be read may lead to **loss of marks**.
7. Do not fill anything in the table indicated: "**FOR EXAMINERS' USE ONLY**" and boxes inside the question paper.

FOR EXAMINERS USE ONLY		
QN. NUMBER	MARKS	EXAMINER'S INITIAL
1-5		
6-10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

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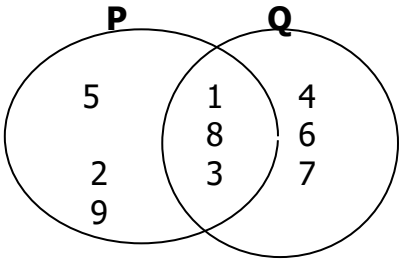
SECTION A: (40 MARKS)

1. Work out: $\frac{1}{2} \times \frac{1}{6}$

2. Use the Venn diagram below to find the complement of set P.



3. Write 55, 555 in words.

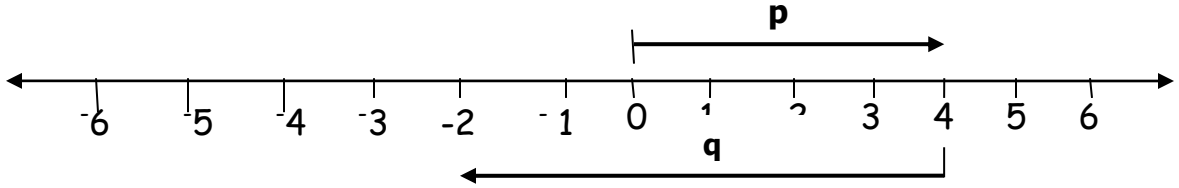
4. If ◯ represents 400 people, how many people are represented by ◯◯⊐ ?

5. Simplify: 9p + 7q – 4p + 3q

6. Find the difference between the third and the tenth whole numbers.

7. Murungi's cow gives 9700 milliliters of milk every day. Express its production in litres.

8. Write the integers represented by letters P and Q on the number line.



p = _____

q = _____

9. Mukisa bought a shirt at 15 Euros. How much is this in Uganda shillings, If 1 Euro is equivalent to 4090 Uganda shillings ?

10. Subtract:

	Wks	**Days**
–	5	3
	2	6

11. Work out: 14 – 12 + 6.

12. Using a ruler, a pencil and a pair of compasses only, construct a circle of diameter 6cm.

13. Use the prime factorization method to find the square root of 196.

14. Solve: $2x + 3x + 4 = 29$.

15. Write CCXLIX as a Hindu – Arabic numeral.

16. 4 people can do a piece of work in 5 days. How many days will 10 people take to do the same piece of work?

17. Divide: 2424 by 6.

18. Find the L.C.M of 18 and 12.

19. What is the larger angle between East and South West?

20. If P = { a, b , c , d} , Find the number of subsets in set P.

SECTION B: (60 Marks)

21. **The table shows Kityo's shopping bill.**

Item	**Quantity**	**Unit cost**	**Total**
Blue Band	$\frac{1}{2}$ kg	Sh. 10000 a kg	Sh. 5000.
Bread	———loaves	4000 a loaf	Sh. 8000.
Tea leaves	$\frac{1}{4}$ kg	———————	Sh. 1500
Sugar	2kg	Sh.4500 a kg	———————
		Total	———————

(a) Complete the shopping bill showing all the working. *(1 mark each*)

(b) If he remained with sh. 6500 after buying all the items in the shopping bill, how much did he go with? *(2 marks)*

22 (a) Given that p = 3, q = 4 and r = 6. Find the value of $\frac{pq}{r}$. *(2 marks)*

(b) I think of a number, multiply it by 10, the answer is 80. Find the number. *(2 marks)*

(c) Solve: 3y + 2 − y = 10. *(2 marks)*

23. Using a ruler, a pencil and a pair of compasses only, construct a rectangle PQRS in which PQ = 8cm and QR = 6cm. *(5 marks)*

24 Mary started a journey of 120km at 8:30 a.m and ended it at 10:00 a.m.

a)Find his average speed in km/hr. *(3 marks)*

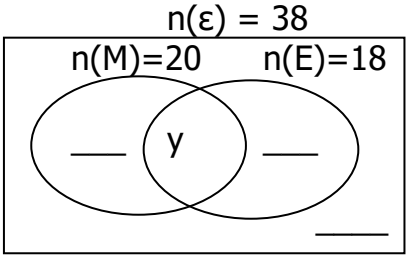
(b) Express 54km /hr to metres / second. *2 marks)*

25a) Simplify: $\frac{4}{5} \times \frac{1}{6} \div \frac{2}{3}$ *(2 marks)*

(b) Work out: $\frac{0.24 \times 0.3}{0.08}$ *(2 marks)*

26. In a class of 38 pupils, 20 like Maths (M), 18 like English (E), 2 does not like any of the two subjects but some (y) pupils like both subjects.

(a) Show this information on a Venn diagram below. *(3 marks)*



(b) How many like both subjects? *(2 marks)*

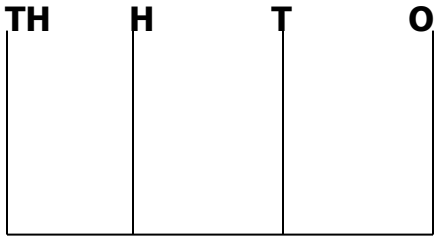
27. Madinah scored the following marks in the Maths weekly tests: 80, 72, 68,70 and 60.

(a) Calculate her average score. *(2 marks)*

(b) An average of 6 chairs per table were prepared for guests at a party. If there were 234 tables, find the total number of chairs prepared. *(2 marks)*

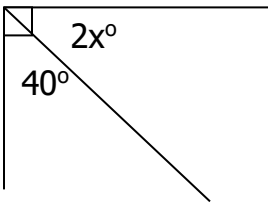
28. (a) Round off 89.79 to the nearest whole number. *(1mark)*

(b) Draw beads to show the number 4312 on the abacus below. *(2 marks)*

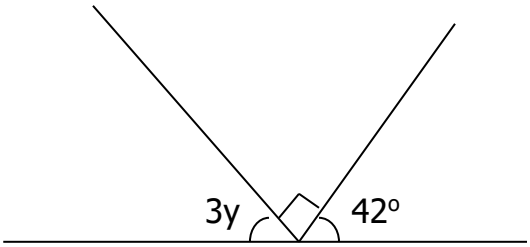


(c) Write 9483 in expanded form using values. *(2 marks)*

29 (a) Find the value of x. *(2 marks)*

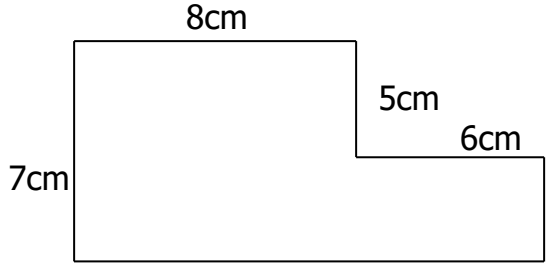


(b) Find the value of y. *(2 marks)*

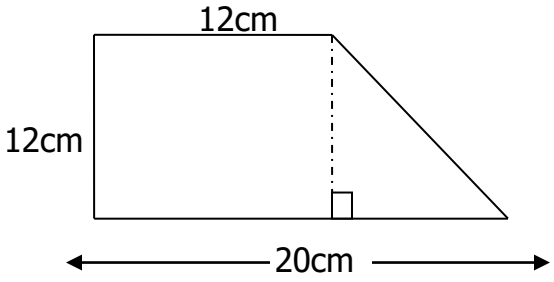


(c) How many lines of symmetry has the figure below. *(2 marks)*

30 (a) Calculate the Perimeter of the figure below. *(3 marks)*



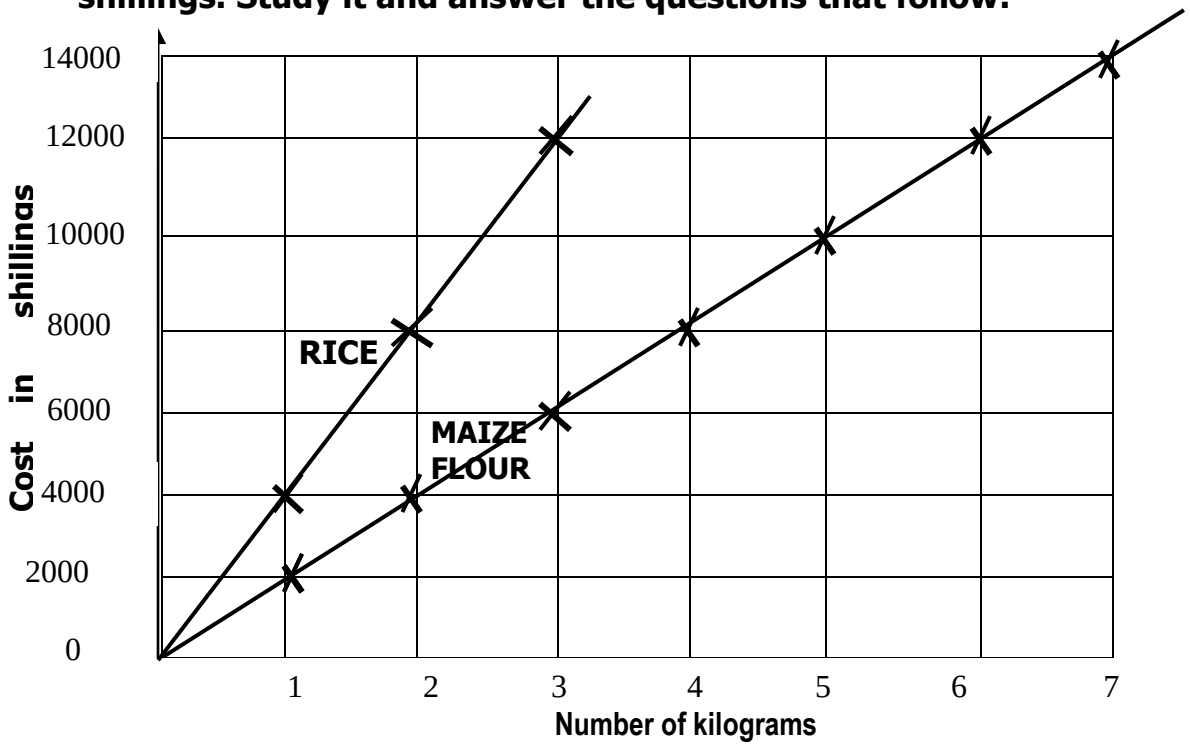
(b) Find the area of the figure below. *(3 marks)*



31(a) Okello's daily income was sh. 20000. It is decreased in a ratio of 3:4. What is his new income? *(2 marks)*

(b) Find the simple interest on sh. 500.000 borrowed for 6 months at 18% per annum. *(2 marks)*

32. **The graph below shows the cost of Rice and that of maize flour in shillings. Study it and answer the questions that follow.**



(a) What is the cost of 1 kg of rice? (1mark)

(b) What is the cost of 1 $\frac{1}{2}$ kg of maize flour? *(1mark)*

(c) How many kg of maize flour can one buy with sh.8000? *(1mark)*

(d) Mulindwa has sh. 12000, how many kg of Rice did he buy? *(1mark)*