## **KOLFRAM EDUCATIONAL SERVICES KAMPALA**



lead to loss of marks.

the question paper.

7. Do not fill anything in the table indicated: **"FOR EXAMINERS' USE ONLY"** and boxes inside

# PRE MOCK SET VII EXAMINATION 2023

### **MATHEMATICS**

Time allowed: 2 hours 30 minutes

Index Number:	ndex Number: Kandom Number		Personal Number									
Candidate's Name:												
Candidate's Signature:  School Name:  District Name:												
							DO NOT OPEN THIS BOOKLET UNLESS YOU ARE TOLD TO DO SO					
							Read and follow these instructions carefully:					
<ol> <li>This paper has two sections: A and B. Section         A has 20 questions and section B has 12 questions. The paper has 10 printed pages.     </li> </ol>		FOR EXAMINER'S USE ONLY										
		QN. NUMBER	MARKS	EXAMINER'S INITIAL								
2. Answer all questions. <b>All</b> answers to both		1-5										
sections <b>A</b> and <b>B</b> n provided.	nust be shown in the spaces	6-10										
·	t be written using a <b>blue</b> or pen or ink. Any answer written than on graphs and diagrams	11-15										
		16-20										
•		21-22										
will not be marked		23-24										
5. No calculators are allowed in the examination room.		25-26										
6. Unnecessary change handwriting that ca	es in your work and not easily be read may	27-28	( to									
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29-30

31-32

**TOTAL** 

EXAMINATIONS BOARD

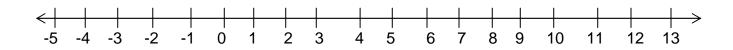
## **SECTION A: (40 MARKS)**

(Each question carries 2 marks)

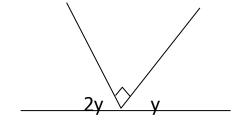
- 1. Given that  $P = \{a, e, i, o, u\}$ . How many elements are in set P?
- 4. Find the next number in the following sequence.
  - 1, 8, 27, 64, \_\_\_\_\_

2. Multiply: 33 x 6

- 5. Subtract:  $\frac{2}{3} \frac{1}{5}$
- 3. What number has been expanded below? 30000 + 500 + 7
- 6. On the number line below show 3 x 4.



7. Find the value of y in the diagram below.



8. Subtract: 4  $3_{\text{five}}$   $\frac{2}{2}$   $\frac{4}{1}$ 

\_\_\_\_

- 9. Write a quarter to five O'clock in the morning in figures.
- 13. A parent waited at the headmaster's office from 7:30 a.m. to 9:15 a.m. For how long did the parent wait?
- 10. Write in figures: Fifty five thousand fifty five.

- 11.Calculate the circumference of circle whose diameter is 28dm.
- 14. Work out: 2 5 =\_\_\_\_\_ (finite 7)

- 15. Find the mean of 3a, 4, a and 0.
- 12. Solve: 4p 2 = 10
- 16. 8 shirts cost sh. 120000. How many such shirts will I buy with sh. 90,000?

17. Simplify: 
$$\frac{1}{3}$$
 (9x - 6)

19. Kenzo's birthday party will take place next week. Find the probability that the party will take place on a day that starts with letter 'S'.

18. Using a ruler, a pencil and a pair of compasses only, bisect the line below.

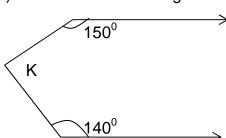


20. How many 250gm bowls of ghee can be obtained from a 10kg tin?

# **SECTION B: (60 MARKS)**

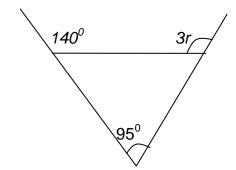
21a) Find the value of angle marked K in the diagram below.

(3 marks)



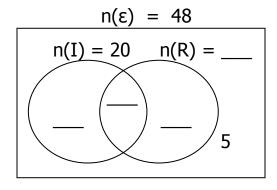
(b) Find the size of the angle marked *r*.

(2 marks)



- 22. Out of the 48 guests who attended Kato's birthday party, 20 ate Irish potatoes (I) and 10 ate both Rice (R) and Irish potatoes, 5 like neither of the two types of food and Y like rice only.
- (a) Complete the venn diagram below.

(1 mark each)

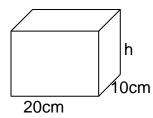


(b) How many pupils like rice only?

(2 marks)

23a)	Show two hundred sixty seven on an abacus. (1 mark)	(b)	Find the difference between place values of 4 and 2 in 48276 (2 marks)		
(c)	Expand 123 <sub>five</sub> using powers.		(1 mark)		
24.	. Isiko scored the following marks in series of tests; 70, 80, 85, 60 and 70				
(a)	What was his modal mark?		(1 mark)		
(b)	Find the median.		(2 marks)		
(c)	Work out the mean mark.		(2 marks)		

25. The volume of the rectangular tin below is 1.2 litres.



(a) Find the value of h.

(3 marks)

(b) Find area of the base.

(2 marks)

26. Nalwanga Teddy bought the following items from a shop.

3 kg of rice at sh. 9000

 $1 \frac{1}{2}$  kg of meat at sh. 8000 per kg

250gm of salt at sh. 1200 per kg

1/2 litre of cooking oil at sh. 4800 per litre

(a) How much money did Teddy spend altogether?

(5 marks)

(b) She was given change of sh. 4800. How much money did she have before the shopping?

(1 mark)

27(a) Simplify: 0.45 - 0.4

0.8 + 0.2

(3 marks)

(b) Express 12 ½% as a fraction in its lowest term.

(2 marks)

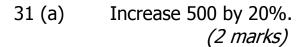
- 28 (a) Kisomose is 3 times as old as his son. The difference between their ages is 12 years. How old is the son?

  (2 marks)
- (b) Solve:  $\frac{2y}{5} + 2 = 4$  (2 marks)

29. At Teso Junior School, two bells ring at intervals of 40 minutes and 30 minutes to change periods in upper and lower primary respectively. They first ring together at 10:30 a.m. The next ring together is at lunch time. At what time is lunch at Teso Junior School? (4 marks)

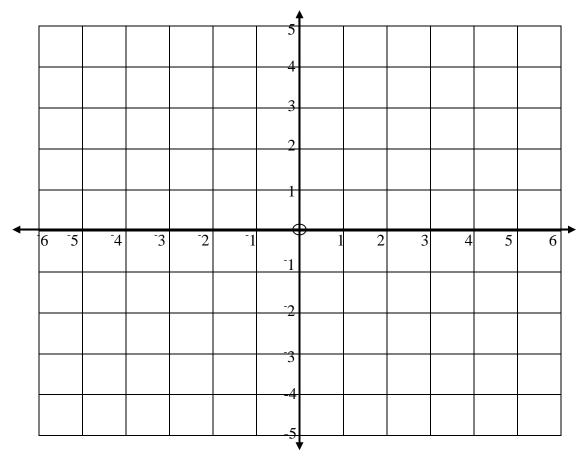
30. Draw a regular pentagon of side 5cm.

(5 marks)



(b) When 1000 is decreased by x% it becomes 900. Find the value of x. (3 marks)

32 (a) On the graph below, plot the vertices of a rectangle P, Q, R, S which are (2, 3), (4, 3), (4, 1), (2, 1) respectively. (1 mark each)



(b) Draw the diagonals PR and QS.

(1 mark)

(c) Find the coordinates of the intersection of the diagonals. (1 mark)