KISORO MUNICIPAL COUNCIL

PRIMARY LEAVING MOCK EXAMINATION 2023 MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

	Random No.		Personal No.			
Index No.			17.			
Candidate's Name:	*************************			110220034200073		
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READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

- 1. This paper has two sections: A and B.
- 2. Section A has 20 questions (40 Marks).
- 3. Section B has 12 questions (60 Marks).
- Attempt all questions in both sections. All answers to both sections A and B must be written in the spaces provided.
- All answers must be written in blue or black ball point pens or *ink*. Only diagrams and graph work must be done in *pencil*.
- 6. Unnecessary *alteration* of work will lead to loss of marks.
- 7. Any *handwriting* that cannot be easily read may lead to loss of marks.
- Do not fill anything in the boxes indicated: "FOR EXAMINER'S USE ONLY"

For Examiner's Use Only;

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Qn. No	MARKS	INITIALS
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KISORO MUNICIPAL COUNCIL 2023

SECTION A: 40 MARKS Attempt all questions in this section. Questions 1 to 20 carry two marks each.

- 1. Work out: 8 4 6 3
- 2. Express CVIII in Hindu Arabic numerals.
- 3. Work out: 2x3 = (finite 5) using the dial below.



- 4. Given set M = {All prime numbers less than 10} and set $N = \{All \text{ whole numbers less than 10}\}$. Find $n(M \cap N)$.
- 5. Draw a net of a cube in the space provided below.

6. Simplify: $2 - \frac{1}{3}$.

7. Change 14_{ten} to binary base.

8. Juliet tossed a **dice** once. What is the probability that a **square** number will appear on top?

9. At Kiri Soda Factory, bottles are packed in packs of 12 bottles each. If they pack 500 packs a day, how many bottles are packed in a week?

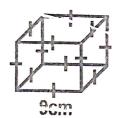
10. Subtract 3b - 2c from 5b + 3c.

11. If set K = {eye, ear, nose}; List all the proper subsets of set K.

12. Find the missing number in the sequence below.

____, 6, 12 , 24 , 48

13. Calculate the length of the wire used to form the cube below.



14. Express 12: 40a.m. to 24 hour time.

15. Write 6 tens using bundles of ten.

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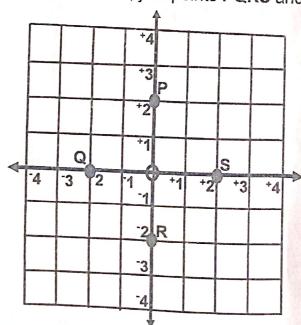
16. Simplify:
$$\frac{a^5 \times a^3}{a^2 \times a^4}$$

17. Solve for ____ in the equivalent fractions below:

$$\frac{1}{3} = \boxed{9} = 12$$

18. Use a ruler, a pencil and a pair of compasses only to construct an angle 135° in the space below.

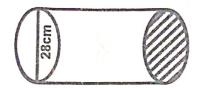
19. On the grid drawn, join points PQRS and name the shape.



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20. The figure below is a **cylinder**, find the area of the shaded part. (Use $\pi = 22$)

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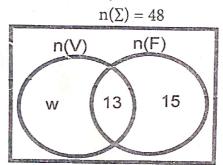


SECTION B: 60 MARKS

Attempt all questions in this section.

Marks for each part of the question are indicated in the brackets.

21. The Venn diagram below shows 48 pupils who enjoy different games in a class. Use it to answer the questions that follow.



a) How many pupils like volleyball only?

b) What is the probability of picking a pupil at random from the class who likes only one type of game?

(03 marks)

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Street Street & Santa	osing a ruler, a pencil and a	nair of compagato	vlan	construct a square	
	ABCD in a circle of radius 3	pair of compasses	5 Offiny,	oonen dot a squar	е
	a clicle of radius 3	3.5cm			

b) Measure side AB = _

(04 marks)

(01 mark)

23. a) Ongomo was last seen 29 days ago. If today is Sunday, which day of the week was Ongomo last seen?

b) Solve for **W**: 3w + 5 = 6 (finite 7)

(02 marks)

(03 marks)

24. a) Given the	digits; 2, 7	', 0 a	nd 6 .	Forn	n and	write	the lar	gest four - dig
number in	words.							
								(00
b) Form and expr	ess the sr	nalle	st fo	ur - d	igit nu	umber	in star	(02 marl I dard form.
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Marks so	cored	85	60	95	80			
Number	of pupils	2	4	1	3			
2) How me and								
a) How many pupi	is scored	abov	e the	mod	al ma	ırk?		
A , Au								
b) Calculate the m	ean mark							(02 marks
26 Peter spent 1 a	of him	SIL						(03 marks)
26. Peter spent <u>1</u> c	n nis mon	thly s	alary	on re	ent, <u>1</u>	on fee	s, <u>1</u> on	food and he
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a) Calculate the fi	raction b							
on and the H	iaction ne	ban	ked.					
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							20	7

27. The median of 6 consecutive odd numbers is 20. If the last number is r, find; a) the first number. (02 marks) 28. Given the exchange rates; US dollar 1 = 3600 Ugandan shillings, Ksh 1 = 30 Ugandan shillings;
 27. The median of 6 consecutive odd numbers is 20. If the last number is r, find; a) the first number. b) their mean. (02 marks) 28. Given the exchange rates; US dollar 1 = 3600 Ugandan shillings
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a) How much money in Ugandan shillings will Alfred get from 800 US
dollars?
b) If a flat television set costs 50 dollars , calculate the same cost in Kenyan
shillings.
(03 marks)
(OS Marko)
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b) Find Peter's monthly salary?

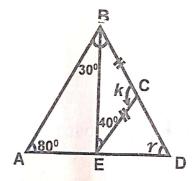
29. a) Solve for k: 4k - 4 = 16.

(02 marks)

b) Given that a = -4, b = -6 and $c = \frac{1}{2}$. Evaluate **c(ab)**.

(02 marks)

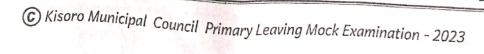
30. Study the figure below and answer the questions that follow.



a) Find the size of angle k.

b) Calculate the size of angle r. (02 marks)

(03 marks)



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31. A motorist left home for town travelling at a steady speed of 80km/h as shown in the table below.

Station	Arrival	Departure		
Home		8:00 a.m.		
Town	11: 00 a.m.			

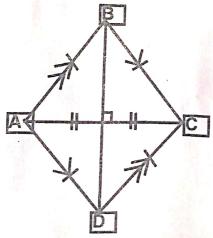
(a) How long did the journey take?

(02 marks)

(b) How far is his home from town?

(02 marks)

32. **ABCD** is a rhombus whose diagonals are **AC** = 12 cm and its perimeter is **40cm**. Use it to answer the question that follows.



Calculate the area of the kite.

(05 marks)



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