

# KAYUNGA DISTRICT ACADEMIC BOARD

## PLE MOCK EXAMINATION 2023

### PRIMARY SEVEN MATHEMATICS

TIME ALLOWED: 2 HOURS 30 MINUTES

Index No.					Random No.					Personal No.				

NAME: \_\_\_\_\_

SCHOOL: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

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

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. The paper is made up of two section A and B
2. Section A has 20 questions (40 marks) and Section B has 12 questions (60 marks)
3. Answer all questions in both sections A and B.
4. All answers must be written in the spaces provided in **BLUE** or **BLACK** ink. Only diagrams should be drawn in pencil.
5. Unnecessary crossing will lead to loss of mark
6. Poor handwriting, which can not be easily read may lead to loss of marks.

FOR EXAMINER'S USE ONLY

SECTION	SCORES	REMARKS
A		
B		
TOTAL		

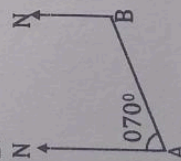
Teacher's comment to the pupil

# SECTION A (40 Marks)

1	Subtract: $39 - 18$	2	Write 94,001 in words.
3	Describe the unshaded part of the venn daigram below. <div data-bbox="383 739 518 929" data-label="Diagram"> </div>	4	Simplify: $-4 - 5$
5	Express 219 in Roman numerals.	6	Tom Junior School had a population of 600 pupils by term I. In term II the population was 400 by what ratio did the number decrease
7	Workout $(42 \div 6) - (30 \div 6)$ using distributive property.	8	The interior angle of a regular polygon is $120^\circ$ . Name the polygon.
9	The circumference of a circular flower garden is 88cm. find its radius (Take $\pi = \frac{22}{7}$ )	10	Subtract: $3y + 3$ from $3y - 5$



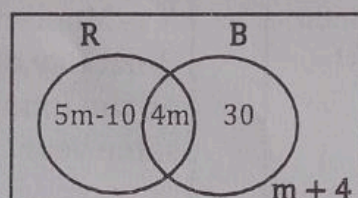
11	On the diagram below, bisect an acute angle.	12	Express 0.25km as metres.
13	Find the value of $t$ in $23_t = 21_{six}$	14	Workout the sum of the 3rd and the 6th triangular numbers.
15	At a forex bureau, $1\text{U\$} = \text{Ugsh. } 3600$ . How many US dollars can one get from Ugsh. 108000?	16	It is Monday 13th, June 2023. What day of the week will it be on the Independence day of the same year?
17	The bearing of town B from town A is $070^\circ$ . Find the bearing of town A from town B.	18	The area of a square garden is $64\text{m}^2$ . Workout the length of each side of the garden.



19	Okum's car consumes 5litres of fuel to cover a distance of 30km. how far can he go with 12litres?	20	Tally 17boys
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SECTION B (60 marks)

- 21 Below is a Venn diagram, Use the information on it to answer the question that follow.



- a) If the number of pupils who ate Rice (R) only was the same as the number of pupils who ate Banana (B) only. Find the value of m.

- b) How many pupils did not eat rice?

(02marks)

- b) Find the probability of selecting a pupil who ate both foods to lead the team?

(02marks)



22	Given the digits 6, 9, 4 and 2.	
a)	Write down the largest 4 – digit number that you can form from the above digits in scientific notation.	b) Expand the number formed in "a" above using Exponents.
	(02marks)	(02marks)
23	The sum of 3 consecutiv even numbers is 78. If their median is h.	
a)	Find the numbers.	b) Find the least number of sweets that can be given to 16 or 18 pupils leaving 3 sweets in each case.
	(03marks)	(02marks)
24	Odongo's factory produces 216 bottles of soda daily. He packs the bottles in crates of 24 bottles each and sells each crate at sh. 20,000. How much money does he earn a week?	
	(05marks)	

25	<p>Study the number line below carefully and use it to answer the questions that follow.</p> <p>a) Write down the integers represented by the arrows.</p> <p>C = _____</p> <p>B = _____</p> <p>A = _____</p>			(03marks)										
b)	Write down a mathematical sentence for the above number line.													
26	<p>Workout: <math>0.24 + 0.12</math> <math>0.04 \times 0.02</math></p> <p>a)</p>			(02marks)										
b)	Express 0.1333 ..... as a common simplified fraction.			(02marks)										
27	<p>The table below shows the marks obtained by some pupils in an examination.</p> <table border="1"> <tr> <td>Marks</td> <td>77</td> <td>50</td> <td>70</td> <td>k</td> </tr> <tr> <td>Frequency</td> <td>3</td> <td>1</td> <td>4</td> <td>2</td> </tr> </table> <p>b) If their average mark is 68, find the value of K.</p> <p>c) Workout the median mark.</p>			Marks	77	50	70	k	Frequency	3	1	4	2	(03marks)
Marks	77	50	70	k										
Frequency	3	1	4	2										
				(02marks)										

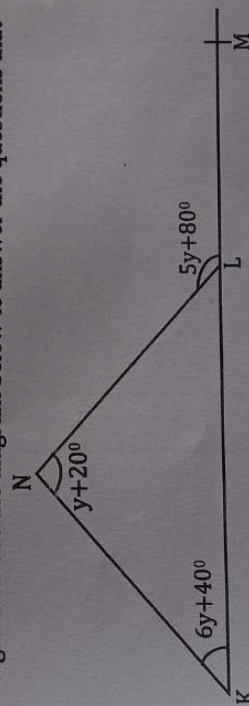


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A truck driver left town A for town C via town B. He drove from town A to town B at A steady speed of  $60\text{ km/hr}$  for 3hrs and rested for 30minutes. He then continued with his journey to town C at a speed of  $100\text{ km/hr}$  for  $2\frac{1}{2}\text{ hrs}$ . Calculate the drivers average speed for the whole journey.

(05marks)

29 K, L, M is a straight line. Use the diagram below to answer the questions that follow.



a)

Find the value of Y.

b)

Workout the size of angle marked NLK.

(03marks)

(02marks)

30	In a village meeting there was 30% more women than men. If the number of women in the meeting was 520, how many people attended the meeting?			(05marks)
31	Workout: $p^3 \times p^4$			(01mark)
b)	Simplify: $4x^2 + y^0$	b)	Workout: $\frac{t^4 \times t^3}{t^2}$	(01mark)
32	Use a ruler, pencil and a pair of compasses only, construct a rectangle WXYZ such that $WX = 7.5cm$ and $XY = 5cm$ .			(02marks)
b)	Measure angle XWZ.			(04marks)
				(01mark)