ERIA JUNIOR SCHOOL NGOMANENE GOMBA

P.7 TERM ONE EXAMINATION 2023

SET THREE MATHEMATICS

Time Allowed: 2 hours 30 minutes

_							
T	n	d	Δ	V	N	$\mathbf{\cap}$	

	Random No.					rsonal No.			

Ca	ndidate's Signature:			
Sc	chool Random No.			
Di	strict ID:			
	Read the following instructions carefully:	FOR EXAM	INERS' U	SE ONLY
l.	This paper has two sections: A and B . Section A has 20 questions and section B has 12 questions. The paper has 10	Qn. No	MARKS	EXR'S Sign
	printed pages.	1-5		
2.	Answer all questions. All the working for both sections A and B must be shown in the spaces provided.	6 – 10		
3.	All working must be done using a blue or black ball point pen	11 - 15		
	or ink. Any work done in pencil other than graphs and diagrams will not be marked.	16 - 20		
1.	No calculators are allowed in the examination room.	21 - 22		
5.	Unnecessary changes in your work and handwriting that cannot	23 - 24		
·•	easily be read may lead to loss of marks.	25 - 26		
5.	Do not fill anything in the table indicated: "For Examiners' use only" and boxes inside the question paper.	27 - 28		
	, , , , , , , , , , , , , , , , , , , ,	29 - 30		

Turn over

31 - 32

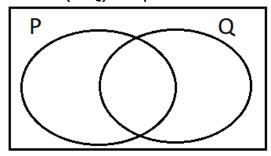
TOTAL

SECTION A (2 Marks each)

1. Add: 5 8 - 2 3

2. Solve: 3k + 2 = 20

3. Shade (P-Q)complement on the Venn diagram below.



4. Find the next number in the sequence below.

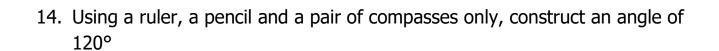
81, 27, 9, 3, 1, _____

5. The area of a triangle is 27dm². Find its base if the height is 9dm.

6. Simplify: -7 + -5

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

8.	Find the range of 4, ⁻ 3, 0, 1 and ⁻ 2.
9.	Change 2.3kg to grams.
10.	Round off 21.95 to the nearest tenths.
11.	6 books cost sh. 4800. Find the cost of half a dozen of the same type of books.
12.	A certain meeting started at 10:25 p.m and ended at 1:55 a.m. How many hours did it take?
13.	Change 123 _{four} to a decimal numeral.

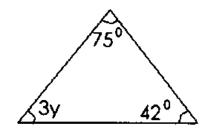




16. The LCM of two numbers is 36. Their GCF is 3. If one of the two numbers is 9, find the second number.

17. Write **Twenty and five hundredths** in figures.

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

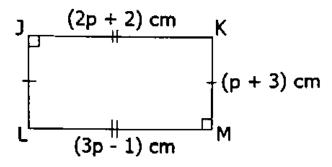


19. Work out $(29 \div 3) + (16 \div 3)$ using distributive property.

20. Solve: $2^p \times 3^3 = 108$

SECTION B (60 MARKS)

21. Below is rectangle JKLM. Use it to answer the questions that follow.



a) Find the value of p.

(2 marks)

b) Find the length of diagonal KL.

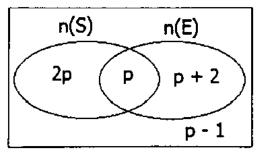
(4 marks)

22. a) Given that ¼ of a number is 12. Find the number. (2 marks)

b) Simplify:
$$\frac{2}{3} \times \frac{3}{4} \div \frac{1}{2}$$

(2 marks)

23. The Venn diagram below shows the number of pupils who like English (E) and Science (S). Use it to answer the questions that follow.



a) Given that 21 pupils do like Science, find the value of p. (3 marks)

b) Find the total number of pupils in the class. (2 marks)

24. Abby, Branice and Carol shared some money in the ratio of 3:5:4 respectively. If Branice got sh. 6,000 more than Abby, how much money did they share altogether? (5 marks)

25.	a) Using a ruler, a pencil and a pair of compasses or ABC where AB=7cm, angle ABC= 45° and angle BAC	• •
	c) Measure angle ACB.	(1 mark)
26.	Sasha went to the supermarket and bought the follo 1 ½kg of meat at sh. 13000 each kg. 1 ½kg of meat at sh. 3200 per litre. 500gm of sugar at sh. 5000 per kg.	
	a) Calculate het total expenditure.	(4 marks)
	b) If she went with a fifty thousand shilling note, fir	nd her change. (1 mark)

27. A pupil scored the following marks.

Marks	90	60	h	40
Number of pupils	2	3	4	1

a) How many pupils did the test?

(2 marks)

28. a) What is 6 in base five?

(2 marks)

b) Find the value of k in $103_k = 54_{seven}$

(3 marks)

29. a) Find the supplement of 125°

(2 marks)

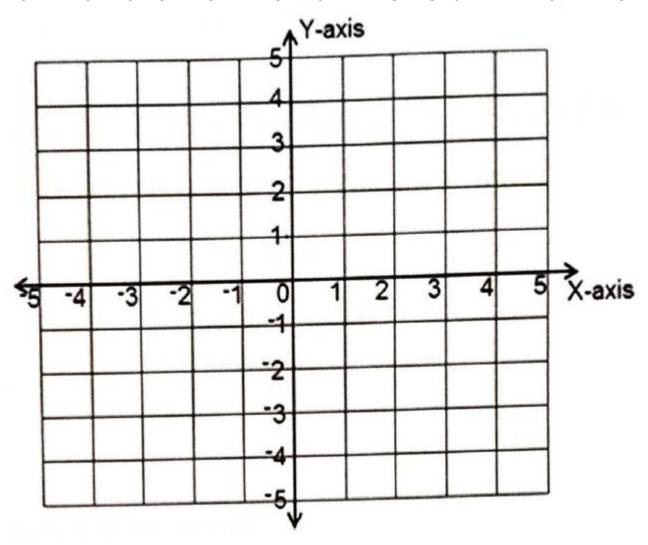
b) What angle is a quarter of its complement?

(3 marks)

b) Acero is 14 years younger than Murungi. In 10 years' time, Murungi will be twice as old as Acero. How old will Acero be then? (3 marks)

31. A worker was given a task of carrying 76 books from the store to the library. Every trip, he carried 4 less books than the previous trip. If he made four trips, how many books did he carry in the first two trips? (5 marks)

32. a) Plot K(-1, 4), L(-3, -1) and M(2, -1) on the grid graph below. (3 marks)



b) Join K to L, L to M, M to K and find the area of the figure formed. (2 marks)

THE END