

# NJERU/LUGAZI MUNICIPALITIES

## PRIMARY SEVEN JOINT MOCK EXAMINATION

2024

### MATHEMATICS

*Time Allowed: 2 hours 15 minutes*

Index No.

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Candidate's Name: .....

Candidate's Signature: .....

School: .....

**Read the following instructions carefully**

1. This paper has two sections: **A** and **B**.
2. Section A has 40 questions (**40 marks**)  
Section B has 15 questions (**60 marks**)
3. Answer all questions. All answers to both Section A and B must be written in the spaces provided.
4. All answers must be written using a **blue** or **black ball-point** pen or fountain pen.
5. Unnecessary changes of work may lead to **loss of marks**. All diagrams must be drawn in pencil.
6. Any handwriting that cannot easily be read may **lead to loss of marks**.
7. Do not fill anything in the boxes indicated;  
**"For Examiners' Use Only"**

FOR EXAMINER'S USE ONLY		
Qn. No	MARKS	SIGN
1-5		
6-10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

*Turn Over*

# SECTION A (40 MKS)

1. Work out:  $36 - 24$

5. Ajok was the 6<sup>th</sup> from one side and 9<sup>th</sup> from the other side of a line of pupils. How many pupils are there in the line?

2. Set  $K = \{A\}$  List down the proper subsets of set ~~A~~. **K**

6. Write CX in Hindu Arabic Numerals.



3. Write 735.63 in standard form.


7. How many 400ml bottles of cooking oil can fill a 12000ml container?

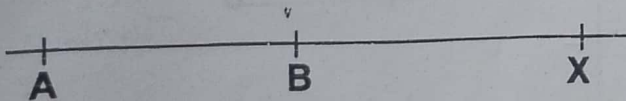
4. Work out:  $15 \div 5 = \underline{\hspace{1cm}} \pmod{6}$

8. Solve:  $\frac{1}{3}x = 2$



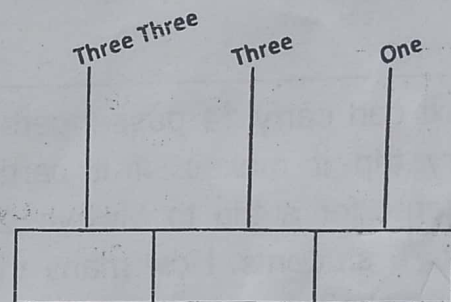
9. Given that   represent 14 mangoes, draw pictures to represent 42 mangoes.

10. Using a ruler and a pair of compasses only construct a perpendicular line at point ~~X~~ 



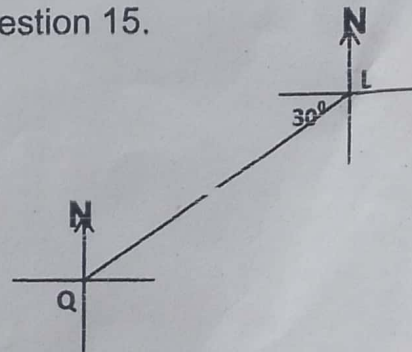
12. Work out:  $-3 - -9$ .

13. Show  $102_{\text{three}}$  on the abacus below.



14. Round off the product of 0.6 and 3 to the nearest whole number.

15. Use the diagram below to answer question 15.



What is the direction of L from Q?

11. Find the next number in the sequence.

6, 10, 16, 24, 33, 43  
 +4 +6 +8 +9 (Composite nos)

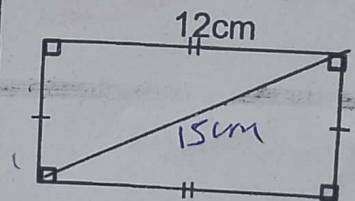
16. Subtract:

Days	Hours
7	2
-	
3	6
<hr/>	
<hr/>	

17. A taxi can carry 14 passengers in every trip it makes. If it carried students for a trip to Mweya and they <sup>were</sup> 75 students. How many trips did it make?

18. The average weight of 5 pupils is 40kg. If the fifth child of 36kg is excluded, what is the average of the remaining 4 pupils?

19. Find the area of the rectangle below.

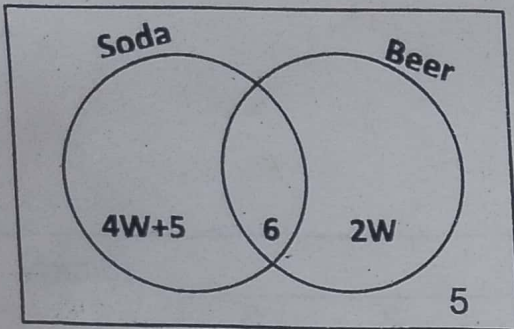


20. Simplify:  $2x + (3x - 4x)$



### SECTION B (60 MARK)

The Venn diagram below shows the number of guests who were served with different drinks at the party.



- (a) Given that 27 guests were served with Soda. Find the value of  $W$ . (2mrks)

- b) How many guests were at the party altogether? (2mrks)

- (c) Find the probability of picking a guest who was served with Soda and Beer (1mrk)

22. Joyce, Grace and Annet shared Mangoes in a ratio of 3:5:7 respectively.

- (a) If Joyce got 12 less mangoes than Annet, how many mangoes did they share altogether? (3mrks)

(b) How many mangoes did Grace get?

(2mks)

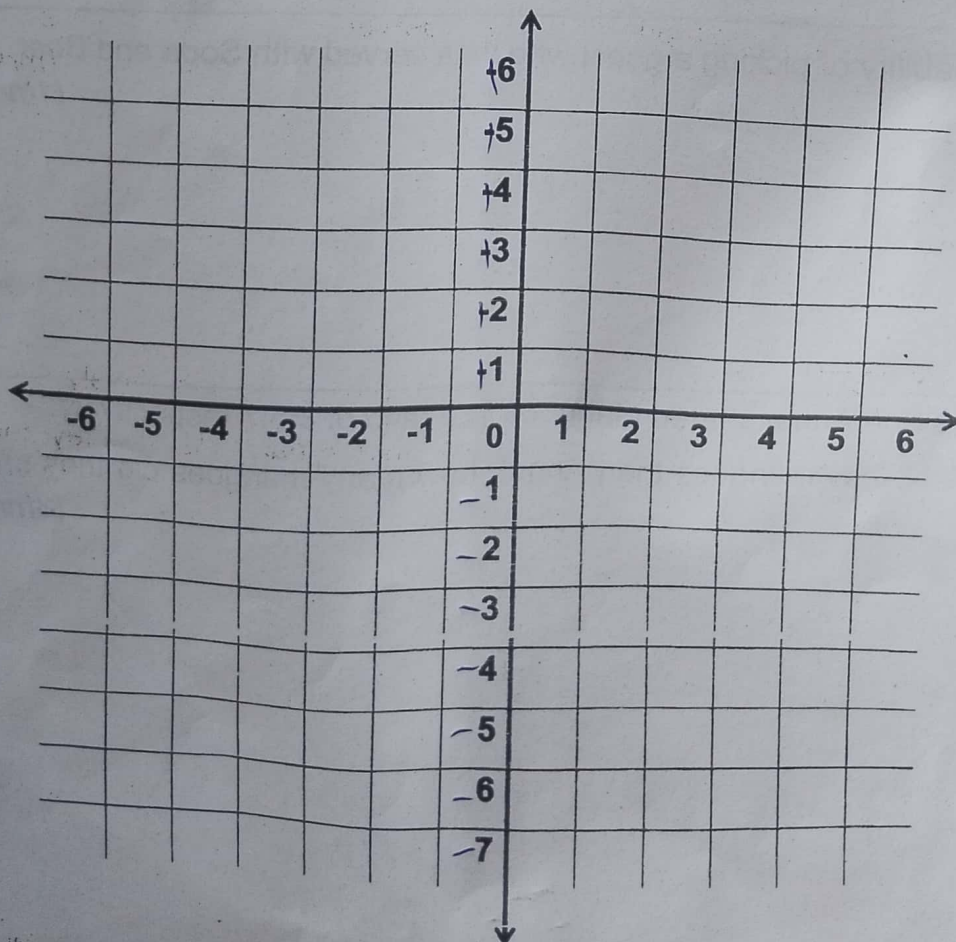
23. a) Complete the table below given that  $Y = 2x - 1$

(3mks)

X	-2	-1	0		2	3
Y	-5	-3		1		5

(b) Plot the above points on the grid below.

(3mks)



4. What number has been expanded to give?  
 $(4 \times 10^3) + (5 \times 10^2) + (6 \times 10^0) + (1 \times 10^{-1})$

(2mrks)

- b) Write 36,706 in words.

(1mrk)

- c) Find the value of  $x$ :  $2^x \times 2 = 8$  .

(2mrks)



25. The sum of four consecutive multiples of 4 is 72. Find the number if the smallest multiple is  $y$ . (4mrks)

26. John left town A at 6:30am for town B while travelling at an average speed of 80km/hr for  $1\frac{1}{2}$  hours and he rested for 30 minutes and drove back to town A in only 2 hours.

- (a) Calculate his average speed for the whole journey.

(3mrks)

- (b) When did he depart from B?

(2mrks)



The sum of interior angles of a polygon is  $1080^\circ$ .  
How many sides has the polygon?

(3mrks)

b) Calculate the size of each exterior angle.

(2mrks)

28. By selling his cock at Sh. 34,000, Kenedy made a loss of 15%.  
a) How much did he buy the cock?

(2mrks)

(b) A woman deposited Sh. 40,000 for 5 years at a simple interest rate of 3% per month. What amount will she get after 5 years? (3mrks)

29 The parents together with their three children shared Sh. <sup>400,000</sup>~~40,000~~ If each parent got Sh. 20,000 more than each child.

(a) How many did each child get? (3mrks)

(b) What was the parents' share? (2mrks)



30. Two taps Q and R are joined to a tank of water. Tap Q brings 57ml of water into the tank per minute, Tap R take 19ml away from the tank per minute. If both are left open for  $2\frac{1}{2}$  hours. How many litres will be in the tank? (4mrks)

31. a) Work out:  $3 - 1\frac{1}{2}$  (2mrks)

A candidate read  $\frac{1}{3}$  of the <sup>book</sup> in the morning,  $\frac{1}{4}$  in the afternoon,  $\frac{1}{6}$  in the evening and remained with 6 pages.

- b) How many pages does the book have? (3mrks)

32. Using a ruler, a sharp pencil and a pair of compasses only, construct a triangle EFG in which  $EF = 8\text{cm}$ , angle  $GEF = 60^\circ$  and  $EFG = 45^\circ$ . (4mrks)

- (b) From G, drop a perpendicular to meet EF at H.

(1mrk)

- (c) Find its area.

(1mrk)