



**(FORMERLY GLOBE) EDUCATIONAL  
CONSULTANCY (GEC)–KAMPALA**

**P.7 GALLANT SET EXAMINATION 2024  
MATHEMATICS**

*Time Allowed: 2 hours 30 minutes*

**Index No.:**

Random Number								EMIS No.		

Candidate's Name: .....

Candidate's Signature: .....

Candidate's School: .....

District Name: .....

**Read the following instructions carefully:**

1. This paper is comprised of two sections: **A** and **B**. Section **A** has **20** questions and Section **B** has **12** questions.
2. Answer **all** questions. **All** answers to **both** sections **A** and **B** must be written in the spaces provided.
3. All answers **must** be written in a **blue** or **black** ball point pen or **ink**. Any work written in pencil will **not** be marked.
4. Unnecessary changes of work and handwriting that cannot easily be read may lead to loss of marks.
5. Do not write anything in the table indicated: **"FOR EXAMINERS' USE ONLY"** and boxes inside the question paper.

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

# SECTION A (40 MARKS)

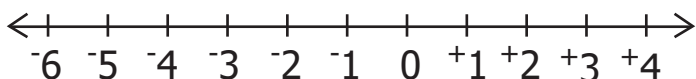
1. Work out:

$$\begin{array}{r} 385 \\ -122 \\ \hline \end{array}$$

2. Musa read  $\frac{3}{8}$  of his book in the morning and  $\frac{2}{8}$  in the afternoon. Find the total fraction of the book that was read.

3. Given that  $A = \{a, b, c, d\}$  and  $P = \{a, e, i, o, u\}$ . How many subsets are formed by the elements in set  $P \cap A$ ?

4. Work out  $-4 - +3$  using a number line.

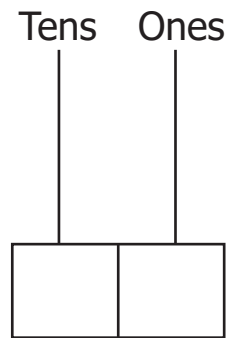


5. Solve  $m + 5 = 3$  (finite 7)

6. Given the tallies below:



Show the above number represented by tallies on the abacus below.



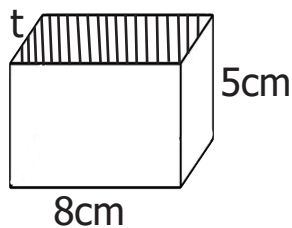
7. Work out:  $24_{\text{five}} + 13_{\text{five}}$

8. Given that  $x = \frac{1}{3}$ ,  $y = 2x$ . Find  $xy$ .

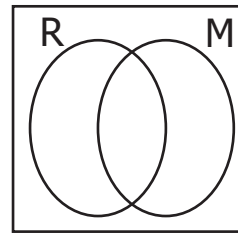
9. Complete the sequence below correctly.

-1, -3, -6, -11, -18, \_\_\_\_

10. The area of the shaded region on the figure below is  $48\text{cm}^2$ . Calculate the volume of the figure.



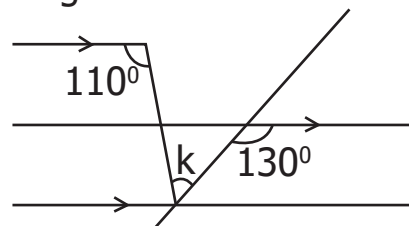
11. Shade the complement of set R on the Venn diagram below.



12. Arrange 0.8, 0.08 and 1.8 in increasing order.

13. Simplify:  $2h - 3(5 - 4h)$

14. Solve for the value of  $k$  on the diagram below.



15. Find the L.C.M of 12 and 15.

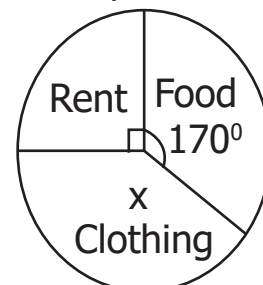
16. Increase 500kg by 20%.

17. Two trucks A and B carry a total of 387 boxes of tiles. If each box has 15 tiles, how many tiles do they carry altogether?

18. The temperature was reading  $21^{\circ}\text{C}$  in Juba by January. It raised by  $18^{\circ}\text{C}$  in April. Find the new temperature in Juba by April.

19. Given that  stands to 8 flowers. How many flowers are represented by   .

20. Tendo spent shs. 720,000 as shown below on the pie-chart.



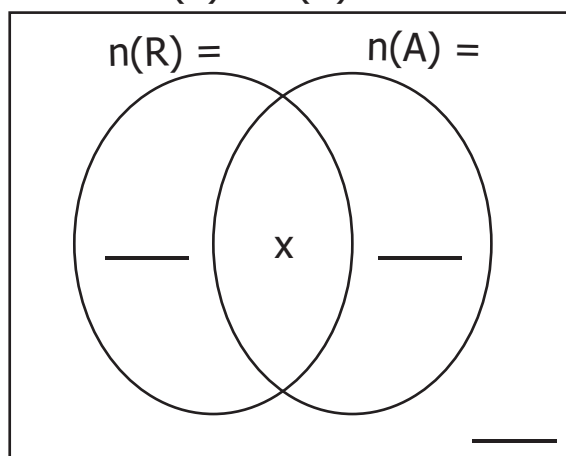
How much did Tendo spend on clothing?

## SECTION B: 60 MARKS

21. During a study tour organised by the P.7 class manager, all the 70 pupils in the class visited the Zoo (Z), 38 pupils visited the Zoo and the source of River Nile. (R), 40 pupils visited the Zoo and the Airport (A). 7 pupils visited the Zoo only while x visited all the three places.

- a) Use the information to complete the Venn diagram below. (3 marks)

$$n(Z) = n(\Sigma) = 70$$



- b) Find the value of x. (2 marks)

22. A fruit seller has 480 fruits in a refrigerator.  $\frac{5}{8}$  of the fruits are mangoes and the rest are apples.

- a) Find the fraction for apples. (1 mark)

- b) If  $\frac{3}{4}$  of the apples and  $\frac{1}{5}$  of the mangoes are sold. How many fruits will he remain with? (4 marks)

23. a) Find the value of  $6^2 + 6^0$ .  
(2 marks)

b) Solve for m if  $3^m \div \frac{1}{81} = 27$ .  
(3 marks)

24. Given the magic square below, use it to answer the questions that follow.

7	k	9
h	10	8
11	c	b

a) Find the magic sum. (1 mark)

b) Work out the value of:  
i) k (1 mark)

ii) h (1 mark)

iii) c (1 mark)

iv) b (1 mark)

25. a) The interior angle of a regular polygon is  $36^\circ$  more than its exterior angle. Name the polygon. (3 marks)

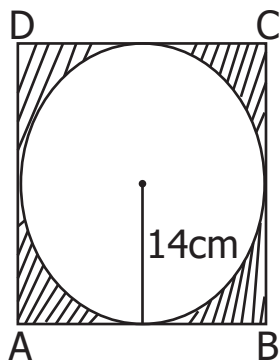
b) Find the interior angle sum of the polygon. (2 marks)

26. Given that 1 Euro costs Ugsh 5,600, 1 dollar costs Ugsh 3,700 and 1 Ksh costs Ugsh 30.

a) How much Uganda shillings will Daniel obtain from 500 dollars? (2 marks)

b) A tourist came to Uganda with 900 Euros and spent 477 Euros during his tour in Uganda. How much did he remain with in Uganda shillings? (2 marks)

27. Study the figure below carefully and use it to answer the questions that follow. ( $\pi = \frac{22}{7}$ )



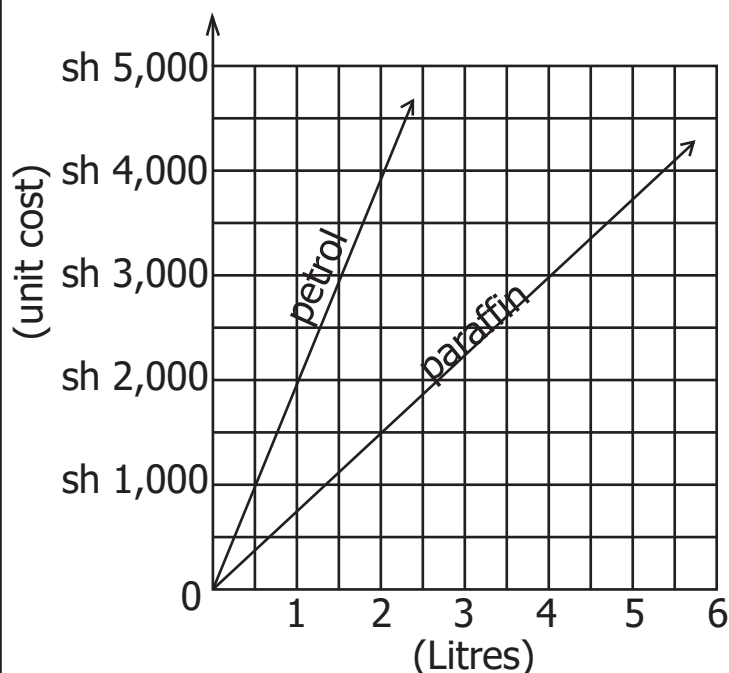
- a) Find the area of the unshaded region. (2 marks)

- b) Work out the area of the shaded region. (3 marks)

28. a) Using a pair of compasses, a ruler and a sharp pencil only, construct a triangle LMN where  $LM = 6\text{cm}$ ,  $\angle L = 75^\circ$  and  $LN = 4.5\text{cm}$ . (4 marks)

- b) Measure the line MN. (1 mark)

29. The graph below shows the selling price of paraffin and petrol of Kagulu Hill Petrol Station.





- a) How much will one pay for a litre of petrol and 2 litres of paraffin? (2 marks)
- b) James used sh 9,000 to buy paraffin at Kagulu Hill Petrol Station. How many litres did he get? (2 marks)
- c) How much is a litre of petrol than a litre of paraffin? (1 mark)

30. a) Work out:  $5 \times 8 \div 2 + 3$  (2 marks)
- b) Work out  $32 \div 8$  using repeated subtraction. (2 marks)

- c) Subtract: 
$$\begin{array}{r} 1101_{\text{two}} \\ - 111_{\text{two}} \\ \hline \end{array}$$
 (2 marks)

