



KAMULI DISTRICT ACADEMIC COMMITTEE
PRE REGISTRATION EXAMINATION

2023

MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

EMIS No.	Personal No.
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Candidate's Name:

Candidate's Signature:

School Name:

Read the following instructions carefully:

- | FOR EXAMINERS:
USE ONLY | | | |
|----------------------------|-------|--------------|--|
| QN NO. | MARKS | EXR'S
NO. | |
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| TOTAL | | | |
1. This paper has **two** sections **A** and **B**. Section **A** has **20** questions and section **B** has **12** questions. The paper has **8 printed pages**.
 2. Answer **all** questions. **All** answers to both sections **A** and **B** must be written in the spaces provided.
 3. **All** working must be written using a **blue** or **black** ball point pen or ink. Any work written in pencil other than on graphs and diagrams will **not** be marked.
 4. **No calculators** are allowed in the examination room.
 5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
 6. Do not fill anything in the boxes indicated: "**FOR EXAMINERS' USE ONLY**"

SECTION A: 40 MARKS

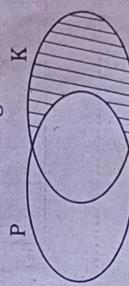
Answer **all** the questions in this section.
Questions 1 to 20 carry **two marks each.**

1. Add: $124 + 36$

$$= 160$$

2. Write XLIX in Hindu Arabic numerals.

3. Describe the shaded region on the venn diagram below.



4. Find the value of 6 in the figure 46,237

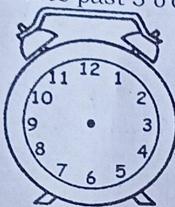
5. Round off 6,954 to the nearest tens.

6. Find the LCM of 12 and 8.

7. What number has been expanded to give
 $(2 \times 1000) + (4 \times 100) + (9 \times 10) + (7 \times 1)$

Workout $\frac{2}{5} - \frac{1}{6}$

9. Show 25 minutes past 3 o'clock on the clock face below.



10. Using a pencil, a ruler and a pair of compasses only, construct an angle of 60° in the space below.

11. The cost of 3 pens is sh. 1,800. Find the cost of 5 similar pens.

12. Simplify: $2p + 5k + 3p - 2k$.

13. Add:

weeks	days
3	4
+ 2	<u>5</u>

14. Write 1,982 in words.

.....
.....

15. Set $K = \{\text{counting numbers between } 10 \text{ and } 20\}$. Find $n(K)$

16. Find the next number in the sequence: 2, 3, 5, 7,

17. Work out $7 - 6 =$

5

18. Work out $3 - 6 = \dots \dots \text{ (finite 7)}$

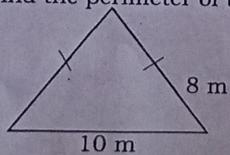
6.

19. Work out

$$\begin{array}{r} 1 & 4 & 3 \text{ five} \\ + & 1 & 1 \text{ five} \\ \hline \end{array}$$

7.

20. Find the perimeter of the figure below.

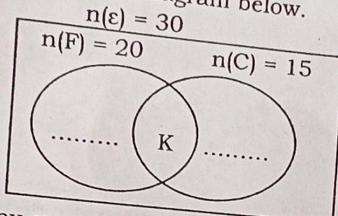


SECTION B: 60 marks

Answer all the questions in this section.
Marks for each question are indicated in brackets.

At a birthday party attended by 30 guests, 20 took Fanta (F), 15 took Coke (C), K took both Fanta and Coke but 4 guests took neither of the two drinks.

- (a) Complete the venn diagram below.



- (b) How many guests took both drinks?

(2 marks)

- (c) How many guests did not take Coke?

(2 marks)

22. (a) Find angle P.

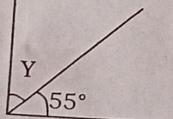
(2 marks)

110°

P

- (b) Find angle Y

(2 marks)



23.

Kabendegere went for shopping and bought the following items.

3 kg of rice at sh. 4,000 per kg.

1½ kg of sugar at sh. 5,000 @ kg.

500 g of meat at sh. 12,000 per kg.

3 kg of salt at sh. 6,000.

- (a) What was his total expenditure?

(4 marks)

(b) If he went with sh. 50,000, how much was his change? (2 marks)

24. (a) Solve for a : $\frac{2a}{8} = 5$ (2 marks)

(b) Simplify: $\frac{0.25 \times 0.4}{0.5}$ (3 marks)



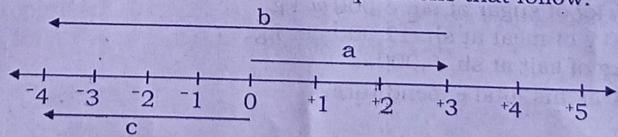
25. Anna, Ruth and Kaseem shared sh. 180,000 in the ratio of 1:2:3 respectively.

(a) How much money did each person get? (4 marks)

(b) How much more money did Kaseem get than Ruth? (2 marks)

26. Using a pencil, a ruler and a pair of compasses only, construct an equilateral triangle ABC of sides 5 cm. (4 marks)

27. Use the number-line below and answer questions that follow.



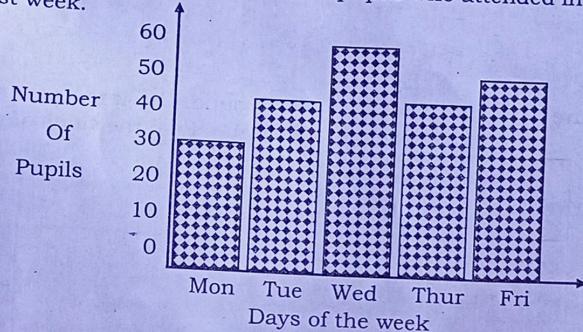
(a) Write integers represented by a, b and c. (1 mark each)

a = b = c =

Write a mathematical statement.

(2 marks)

28. The graph below shows the number of pupils who attended in Primary 7 class last week.



- (a) How many pupils were present on Tuesday? (1 mark)
- (b) Which day had the lowest number of pupils? (1 mark)
- (c) Which two days had the same number of pupils? (2 marks)
- (d) Find the average number of pupils for the whole week. (2 marks)

29. The table below shows marks scored by Primary 7 pupils in end of term mathematics examination.

Marks	60	80	70	90
No. of pupils	4	2	1	3

- (a) How many pupils sat for the examination? (1 mark)

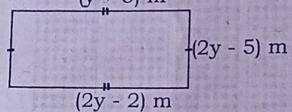
(b) What was the modal score?

(1 mark)

(c) Calculate the average mark.

(2 marks)

30. The figure below is a rectangular compound. Use it to answer questions that follow.



(a) Find the value of y. (2 Marks)

(b) Find the area of the compound.

(3 marks)

31. John travelled for 3 hours at a speed of 60 km/hr from home to school.

(a) What distance is between home and school?

(2 marks)

(b) Convert 300 minutes to hours.

(2 marks)

32. Given that $a = 5$, $b = 4$ and $c = 3$. Find the value of the following.

(a) abc (2 marks)

(c) $\frac{ab}{c}$

(2 marks)

(b) $a + b + c$

(1 mark)