KAKUMIRO DISTRICT EXAMINATION BOARD

PRIMARY SEVEN MOCK EXAMINATION

2023

MATHEMATICS

Time Allowed: 2 hours 30 minutes

	EMIS No.						Personal No.		
Index No.									

Candidate's Name .....

Candidate's Signature.....

EMIS Number.....

District Name .....

Read the following instructions carefully:

1. This paper has 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 using a blue or black ball point pen or ink. Any work written in pencil other than graphs and diagrams will not be marked.
4. Unnecessary changes in your work may lead to loss of marks.
5. Any handwriting that cannot easily be read may lead to loss of marks.
6. Do not fill 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		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

Turn Over

SECTION A

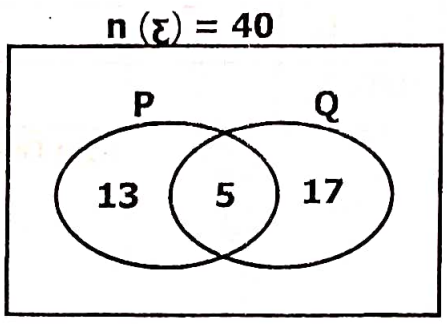
1. Workout: **734 – 53.**

2. Write "**Four hundred eighty thousand, Forty nine**" in figures

3. Simplify: **-8 - -5**

4. Jane bought **250ml** of cooking oil. Express the quality she bought in **litres.**

5. Use the venn diagram below to find **n(PnQ)^1**



6. Workout: $2\frac{1}{7} - \frac{2}{7}$

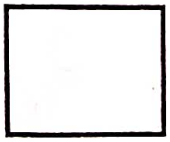
7. A trader sold a new generator at **sh. 860,000** and made a loss of **sh. 40,000**. What was the cost price of the generator?

8. Workout:

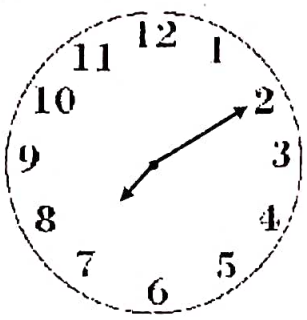
$$\begin{array}{r} 1\ 2\ 3\text{five} \\ -\ 3\ 4\text{five} \\ \hline \\ \hline \end{array}$$

9. Using a **protractor**, a **ruler** and a **pencil**, draw an angle of **60°** in the space provided below.

10. Simplify: $(y - 2) - (3 - 2y)$

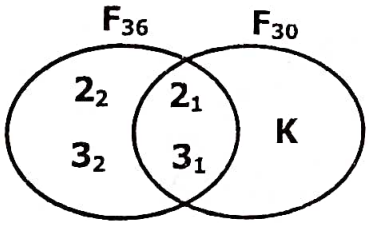


11. What morning time is shown on the clock face below.



12. Express **194** in Roman numerals.

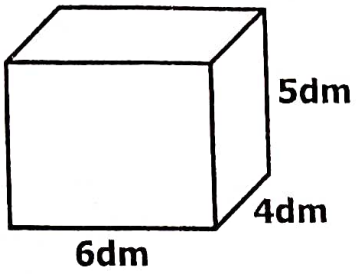
13. Use the venn diagram below to find the value of **K**



14. Given that **x** = $\{a, b, c\}$, List down all the subsets in set **X**

15. Solve For **P**: **P + 2 = 1** (finite 3)

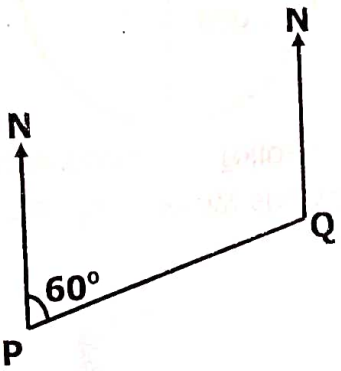
16. Find the sum of the length of all the edges in the figure below.



17. The mean of **y+1**, **5** and **y** is **6**. Find the value of **y**.

18. A poultry farm produces **115** trays of eggs daily. How many eggs does the farm produce in **5** weeks.

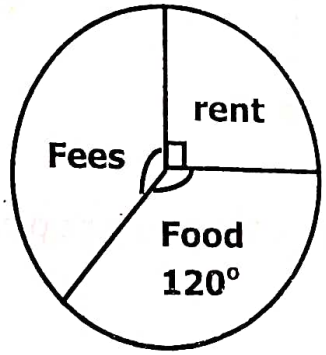
19. In the diagram below, find the bearing of P from **Q**.



20. Below are the heights of some seedlings in Sseremba's nursery bed. **15cm**, **70cm**, **50cm**, **30cm**, and **70cm**. Calculate the range of the heights of the seedlings.

b) If they last rung at **9:10am**, at what time will they ring together again? **(3 marks)**

23. The pie-chart below shows how Juliet spends her monthly salary. Study it and answer the questions that follow.



a) If Juliet spends **sh. 300,000** on fees, how much is her monthly salary. **(3 marks)**

b) How much more does Juliet spend on food than rent? **(2 marks)**

24. a) Solve for **n**: $\frac{2n+6}{4} = \frac{4+4n}{6}$ **(3 maks)**

b) Find the value of **2(a - b)** if **a = -3** and **b = 2** **(2 marks)**

25. Using a pair of compasses, a ruler and a pencil only, construct a triangle **ABC** where **AB=7cm**, angle **BAC = 120°** and angle **CBA = 30°**. **(4 marks)**

b) Measure length **CB**

(1 mark)

6. The rates at which the bank buys and sells united states dollars and Kenya shillings are given in the table below

Currency	Rates at which a Bank buys	Rate at which a bank sells
I US dollar (US$)	Ugsh. 3400	Ugsh 3440
! Kenya shilling (Ksh)	Ugsh. 30	Ugsh. 32

) If a tourist has **800 dollars** and **Ksh. 1350**, How much money in Uganda shillings can he get from the bank? **(3 marks)**

b)If Edward is to travel to United states with Us dollars equivalent to Uganda shillings **13,760,000**, find the amount in dollars Edward will travel with **(2 marks)**

(3 marks)

27. Simplify: $\dfrac{3.6 \times 0.008}{0.16 \times 0.9}$

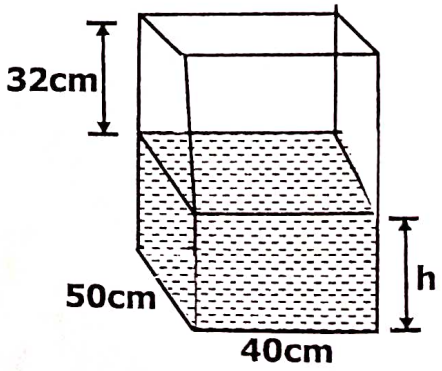
b) Simplify: $3\frac{3}{5} \div 4\frac{1}{2} \times 1\frac{7}{8}$ **(3 marks)**

28. Ali drove from Kampala to Iganga for **4 hours** at a speed of **60km/h**. He left Iganga at **3:00pm** and drove back to kampala at a steady speed of **80km/h** after resting for an **hour**.

a) At what time did Ali reach Kampala? **(3 marks)**

b) Calculate Ali's average speed for the whole journey. **(2 marks)**

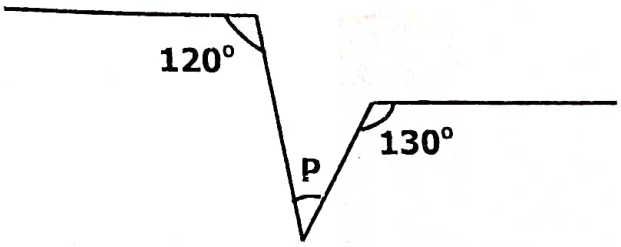
29. The rectangular tank below is $\frac{3}{5}$ full of water.

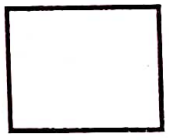


) Find the value of **h** **(2 marks)**

o) Calculate the capacity of the water in the tank. **(2 marks)**

30. a) In the Figure below, Find the size of angle **P** **(4 marks)**



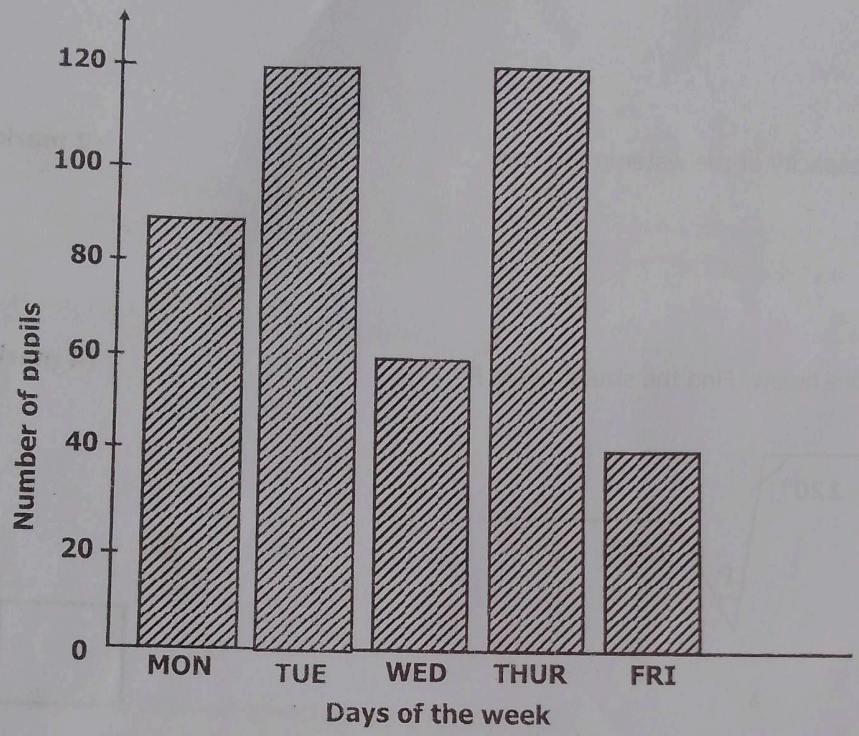


31. A kumu spent $\frac{1}{3}$ of her money on books, $\frac{1}{6}$ of the reminder on transport and saved the rest.

a) What fraction of her money did she save? **(3 marks)**

b) If she was left with sh.15,000, how much did she have first? **(2 marks)**

32. **The bar graph below represents the attendance of primary seven class of a certain week. Study it carefully and answer the questions about it.**



a) How many pupils were absent on Monday? **(2 marks)**

b) How many more pupils attended on Tuesday than on Friday? **(2 marks)**

c) Find the average attendance for the whole week? **(2 marks)**