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THE REPUBLIC OF UGANDA

KUMI MUNICIPAL COUNCIL

PRE-PLE EXAMINATION 2024
MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.:	Random Number						EMIS No.		

Candidate's Name: ....

Candidate's Signature: ....

School: ....

District Name: ....

Read the following instructions carefully:

1. Do not write your **school** or **district** name anywhere on this paper.

2. This paper has two sections Section **A** and **B**. A has **20 questions** (**40** marks) and section B has **12 questions** (**60** marks). This paper has **12 pages printed** altogether.

3. Answer **all** the questions. **All** the working for both sections **A** and **B** must be shown in the spaces provided.

4. **All** the working **must** be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than graphs and diagrams will **not** be marked.

5. **No calculators** are allowed in the examination room.

6. Unnecessary **changes** in your work and handwriting that cannot be easily ready may lead to **loss of marks**.

7. Do not fill anything in the box indicated: **FOR EXAMINERS' USE ONLY** and the boxes inside the question paper.

Turn Over

SECTION A (40 MARKS)

1. Work out: 734 – 53

2. Write "Four hundred eighty thousand, forty-nine" in figures.

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

3. Simplify: ⁻8 – ⁻5

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?

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

5. Use the Venn diagram below to find, (P∩Q)'.

$n(\Sigma) = 40$

13 5 17

8. Work out: $\begin{array}{r} 1 \; 2 \; 3_{\text{five}} \\ - \; 3 \; 4_{\text{five}} \\ \hline \end{array}$

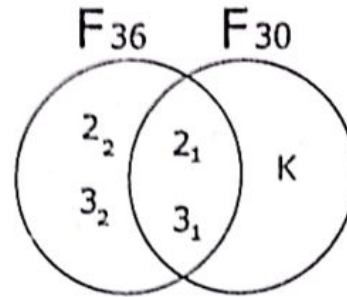Using a **protractor**, a **ruler** and a pencil, draw an angle of **60°** in space provided below.

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

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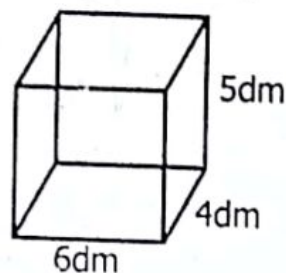

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12. Express **194** in Roman numerals.

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

F_{36} F_{30}

14. Given that $X = \{a, d, c\}$, list down all the subsets of set X.

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

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

5dm

4dm

6dm

**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.

SECTION B (60 MARKS)

In a class of **83** pupils, all of them like posho **(P)**, **47** of them like Matooke **(M)** 40 like Rice **(R)**, **2K** like all the three types of food while **6** like only Posho.

a) Represent the above information on a Venn diagram. **(2 marks)**
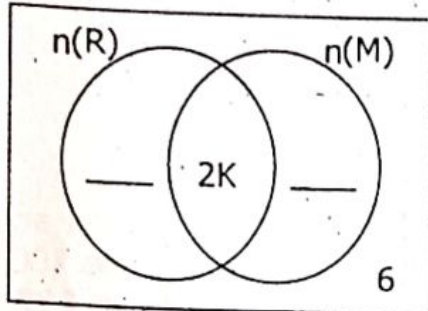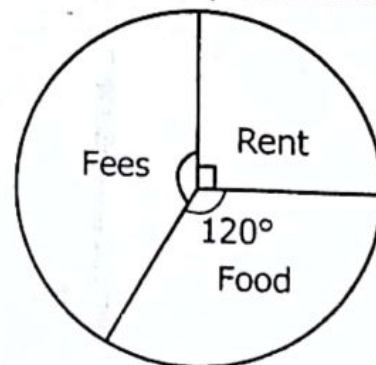

b) Find the value of K. **(2 marks)**

C) How many pupils like only two types of food? **(1 mark)**

22. Three bells ring at intervals of **90 minutes, 30 minutes** and **40 minutes** for infant, middle and upper primary respectively.

a) After how long will they ring together? **(2 marks)**

b) If they last rang 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) Find the value of 2(a – b), if a =
    and b = 2.   (2 mark)

b) How much more money did Juliet
    spend on food than rent? (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)

24. a) Solve for n: $\dfrac{2n + 6}{4} = \dfrac{4 + 4n}{6}$

                        (3 marks)

b) Measure length **CB**.   (1 mark)

The rates at which the bank buys and sells United States dollars and Kenyan shillings are given in the table below.

Currency	Rates at which the bank buys	Rates at which the bank sells
1 US dollar(US$)	Ugsh. 3400	Ugsh. 3440
1 Kenyan 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 Ugandan shillings 13,760,000, find the amount in dollars Edward will travel with. (2 marks)

27. a) Simplify: $\dfrac{3.6 \times 0.008}{0.16 \times 0.9}$ (3 marks)

b) Simplify:

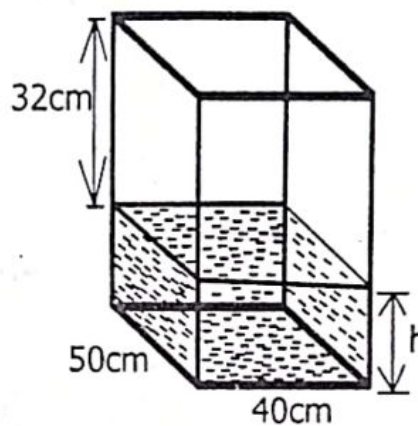$$3\frac{3}{5} \div 4\frac{1}{2} \times \frac{7}{8}$$ (3 marks)

28. Ali drove from Kampala to Iganga for **4 hours** at speed of **60km/hr**. He left Iganga at **3:00pm** and drove back to Kampala at a steady speed **80km/hr** 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)

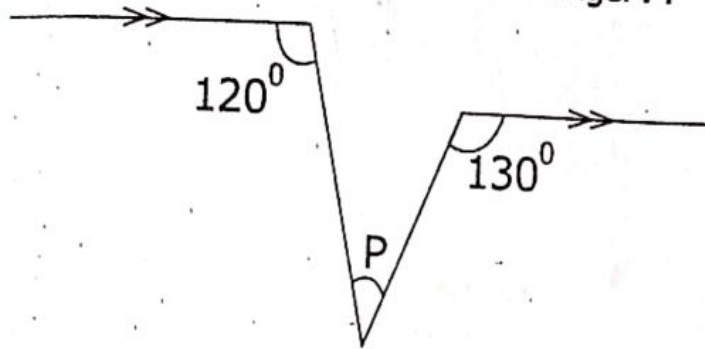29. The rectangular tank below is $\frac{3}{5}$ full of water.

a) Find the value of h.   (2 marks)

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

a) In the figure below, find the size of angel **P**. (4 marks)

31. Akumu spent $\frac{1}{3}$ of her money on books, $\frac{1}{6}$ of the remainder on transport and saved the rest.
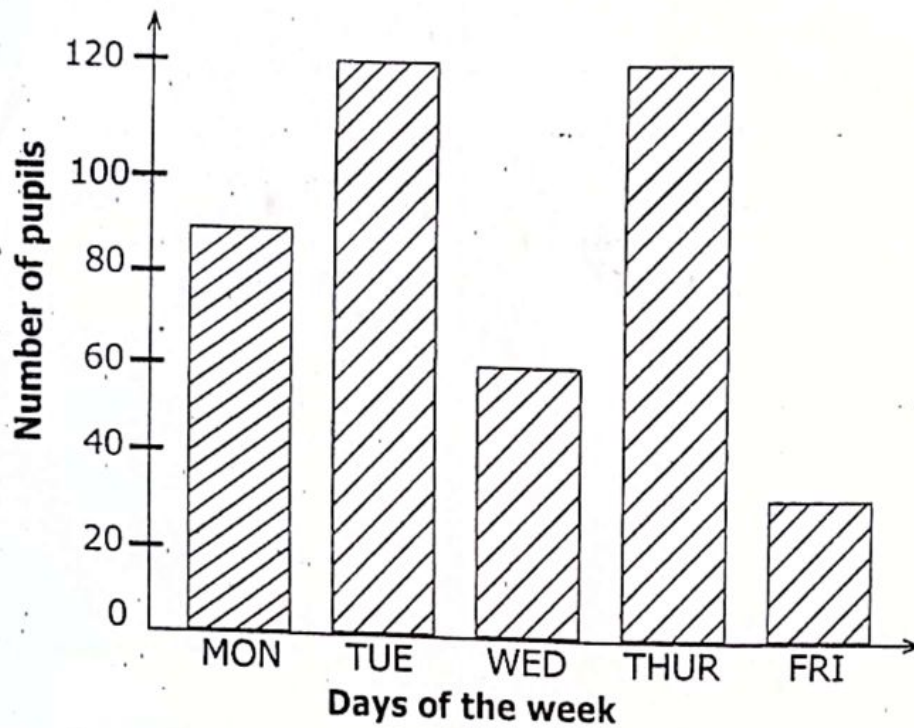
a) What fraction of her money did she save? (3 marks)

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

32. The bar graph below represents the attendance of the 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)

END