KAMULI MUNICIPALITY SCHOOLS

PRIMARY LEAVING MOCK EXAMINATION

2023

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Random No.						Personal No.		

Candidate's Name: .....

Candidate's Signature: .....

District ID No. | | | | |

Read the following instructions carefully:

1. This paper has **two** sections: **A** and **B**.
2. All the working for both sections **A** and **B** must be shown in the spaces provided.
3. All working must be done using a **blue** or **black** ball-point pen or fountain pen. Any work done in pencil other than graphs, pictures and diagrams will **not** be marked.
4. **No calculators** are allowed in the examination room.
5. Unnecessary changes of work may lead to **loss** of marks.
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 EXAMINERS' USE ONLY		
Qn. No	MARKS	INITIALS
1 – 5		
6 – 10		
11 – 15		
16 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
TOTAL		

SECTION A

1. Add: **22 + 44**

2. Write 19.846 in words.

3. Find the next number in the sequence

   1, 2, 5, 10, 17, _____

4. Subtract: $\frac{2}{3} - \frac{1}{4}$

5. Work out **6 + 3 =** ..... (Finite 7) using a dial clock.

6. Agago slept at **22 50 hours**. Express the time in 12-hour clock system.

7. Using a ruler, a pencil and a pair of compasses, construct an angle of 45°

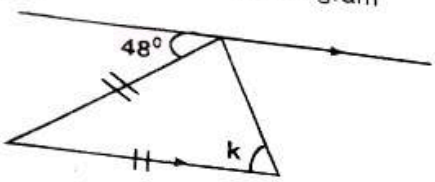
8. Given that set **M = {m, e}**, list all the subsets in set **M** which are proper

9. Add: $\mathbf{1011_{two} + 11_{two}}$

10. Find the smallest number of books that can be shared by either 8 girls or 5 boys and leaves a remainder of 3 books.

11. Solve the inequality: $2p - 7 \leq 13 - 4p$

12. Find the value of **k** in the diagram below.



13. There are 8 blue pens, 4 green pens and 6 red pens in a box. Find the probability of picking a green pen at random.

14. A watch was bought at **sh.12,000** and sold at **sh.15,000**. Find the percentage profit.

15. **5** boys take **9** days to weed a garden. How many more boys are needed to weed the same garden in **3** days?

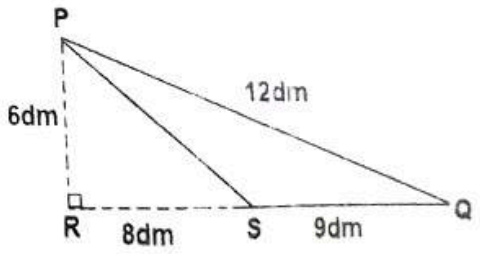
16. The interior angle of a regular polygon is **100°** more than the exterior angle. Name the polygon.

17. A shopkeeper sold sugar in a quarter kg packets at **sh.1,250** per packet. How much money did he get from **5kgs** of sugar sold?

18. Simplify: $(7m - 3) - (3m - 5)$

19. Workout: -8 - -5

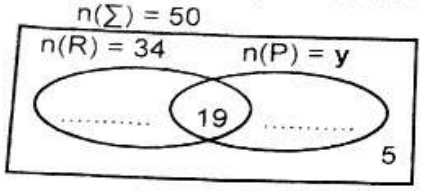
20. Calculate the area of triangle **PSQ** below.



SECTION B

21. In a meeting attended by 50 parents, 34 ate Rice (R), y ate Posho (P), 19 ate both rice and posho while 5 ate none of the two foods.

(a). Complete the Venn diagram below. **(2 marks)**



(b). Find the number of parents who ate Posho only. **(3 marks)**

22. Mugoya banked sh. 600,000 in Centenary Bank at a simple interest rate of 10% per year for 2 years and 3 months.

(a) Calculate the interest he paid in that period. **(2 marks)**

(b) How much money did he have at the end of the period given? **(2 marks)**

23(a) Use distributive property only to work out: $(89 \times 16) - (89 \times 6)$ **(2 marks)**

(b) What number has been written in Standard form to get 5.89×10^3? **(2 marks)**

24. Matama went to Butangaala market on Sunday and bought the following items:
2 dresses at sh. 8000 per dress.
1½ dozen books at sh. 900 per book.
6 pairs of knickers for sh. 24,000.

(a). Calculate her total bill.

(4 marks)

(b) If she had three-twenty thousand shilling notes, how much did she remain with?

(2 marks)

25(a) Using a ruler, a pencil and a pair of compasses only, construct a rhombus **KAMU** in which **KA = 6cm** and angle **KAU = 120°**. **(4 marks)**

(b) Measure diagonal **AM**: ..... (1 mark)

26. Kamoga built a circular hut of diameter **14m** using poles which were place at 2m apart but the door covered **4m**.

(a). Find the total number of poles he used. **(Take $\pi = {}^{22}/_{7}$)** (4 marks)

(b) If each pole cost **sh. 5,000**, how much money was used to buy all the poles?
(2 marks)

27. Fene, Miyembe and Mapeera shared a certain amount of money in the ratio 7:2:3 respectively. If Fene got sh 36,000 more than Mapeera,

(a) How much money was shared altogether? **(3 marks)**

(b) Find the percentage Miyembe got out of the total amount shared. **(2 marks)**

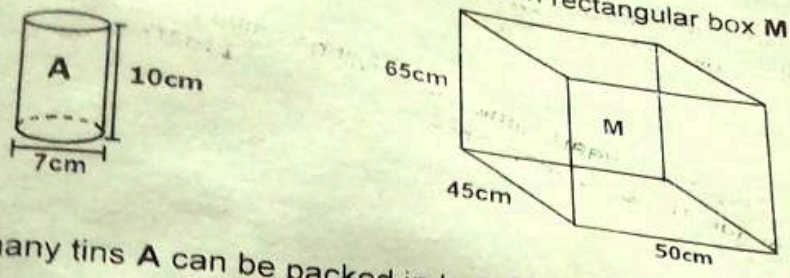
28. Given the digits **2, 7, 0** and **5,**

(a) Write the smallest four-digit numeral formed using the given digits above. **(1 mark)**

(c) Round off the smallest number formed above to the nearest hundreds. **(2 marks)**

(b) Form the biggest four-digit numeral and find the sum of the value of **7** and the place value of **2**.
(3 marks)

29. Cylindrical tins **A** below are to be packed in rectangular box **M**.



(a) How many tins **A** can be packed in box **B**?

(2 marks)

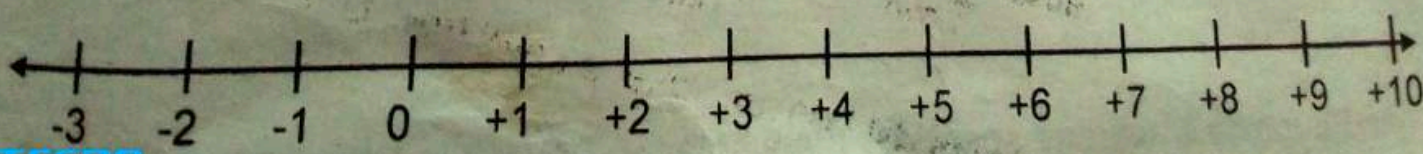
(b) Calculate the volume of space left. **(Take** $\pi = {}^{22}/_{7}$**)**

(3 marks)

30. Mr. Munaaba rode from his home for **5km** and his bicycle broke down. He pushed the bicycle back for **2km** to get a mechanic and then he continued for his journey for **4km**.

a) If 1unit represents 1km, represent Mr. Munaaba's journey on the number line below.

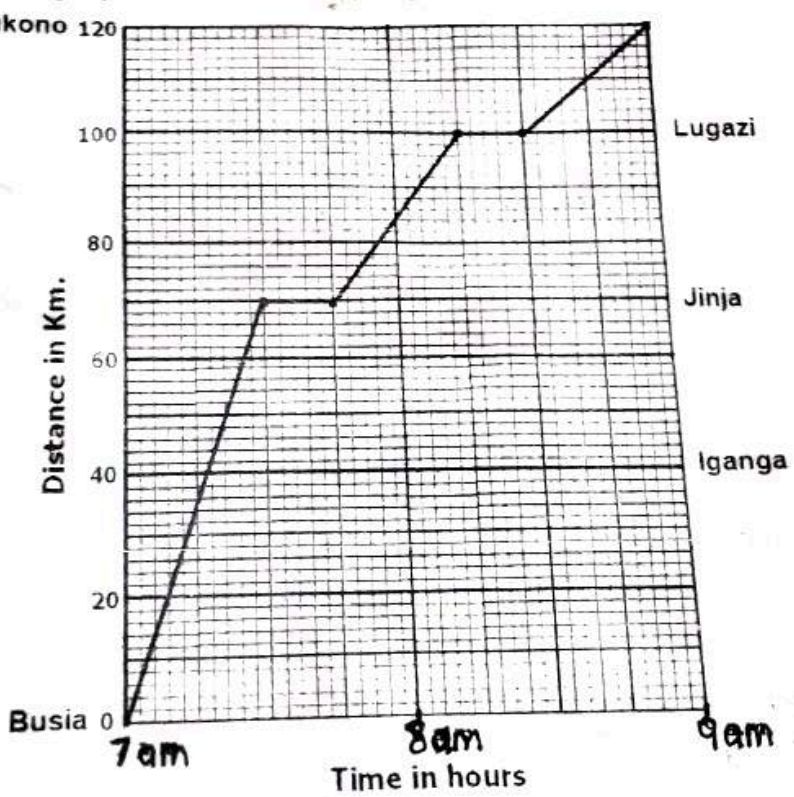
(3 marks)



) Write a Mathematical statement for Mr. Munaaba's journey. **(2 marks)**

31 Muoi is 15 years older than Mulungi. In 10 years' time, Mubi will be twice as old as Mulungi. What will be their total age in the 10 years time? **(4 marks)**

32. **The travel graph shows Lubaale's journey from Busia to Mukono.**



(a) How many hours did Lubaale take to travel from Busia to Mukono? **(1 mark)**

(b) At what time did Lubaale arrive at Lugazi? **(1 mark)**

(c) Find Lubaale's average speed for the whole journey while travelling. **(3 marks)**