THE REPUBLIC OF UGANDA

MASINDI MUNICIPAL COUNCIL ACADEMIC BOARD

PRE - MOCK EXAMINATION, 2023

MATHEMATICS

Time allowed: 2 hours 30 minutes

Index Number: | | | | | | | | | | |

Candidate 's Name: .....

Candidate 's Signature:.....

School Name:.....

District Name:.....

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Read the following instructions carefully:

1. This paper has **two** sections: A and B.
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 or fountain pen. Diagrams should be drawn in pencil.
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 "** and those inside the question paper.

FOR EXAMINER'S USE ONLY		
Qn. No	Marks	Exrs. No
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31- 32		
Total		

SECTION A: (40 Marks)

For question 1 - 20, each question carries 2marks

1. **Work out:** 6×6^0

2. Write in figures "Twenty three thousand two hundred three".

3. Solve the inequality. $2x - 4 \geq 8$

4. Round off to the nearest tens: 39.6

5. Use indices to expand 456.2

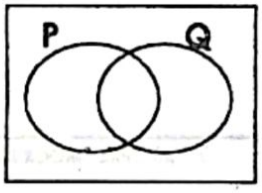
6. Use the distributive property to workout (125 ÷ 25) - (75 ÷ 25)

7. Given that x = ½ y = ⅛ find the value of 36x - 8y

8. Express 0.02456 in scientific notation

9. Use a ruler and a pair of compasses only construct an angle of 75^0 in the space provided below.

10. Shade P^i



11. Use a number line to workout 2 x - 3

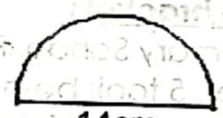
12. Express 0015hrs as in a twelve hour clock.

13. The profit Musa made when selling a shirt was UGX 2,500, he bought it at UGX 15,500. How much did he sell it?

14. Express 50m/s as km/hr.

15. A forty minute lesson ended at 11 : 20am, at what time did it start?

16. Find circumference of this figure below.



17. Teacher Alice was travelling to Luweero at a speed of 75km/hr. She covered a distance of 180km. How long did she take to cover that distance?

18. **Workout:** $\frac{16}{18} \div \frac{1}{3}$

19. Find the LCM of 12 and 18

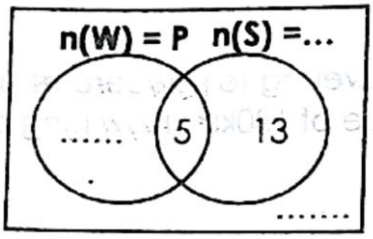
20. **Simplify:** 3p - 5y - 10p + 4y

SECTION B: (60 Marks)

Marks for each question are indicated in the brackets.

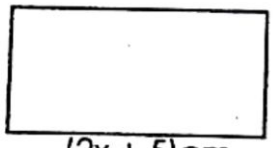
21. At a general parents meeting held at Kubara Primary School P parents took water (W), 13 too soda (S) but not water, 5 took both water and soda while 3 parents did not take any of the two drinks.

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



b). If 20 parents did not take soda how many parents took water? ***(2marks)***

22. The perimeter of the figure below is 54cm.



a). Find the value of x ***(3marks)***

b). Calculate the area of the rectangle. ***(2marks)***

23. George bought the following items from the market.

- 2kg of sugar at sh.2600 per kg
- 3tins of royco at sh.1500per tin
- 500gms of salt at sh.1000 per kg
- 4loaves of bread at sh.8000

a). Find George's total expenditure. ***(5marks)***

b). If George was given change of sh1800 how much did he have at first? ***(2marks)***

24.a). 10 boys can paint a classroom in 2days, How many boys shall be needed to paint the same class in a day? ***(2marks)***

b). Write as a common fraction in its simplest form.

0.1212..... ***(3marks)***

25.a). As I was coming to school on a motor-bike, my bike got a puncture after I had covered ⅖ of my journey to school. If the remaining journey was 9km. How long was my journey to school

(3marks)

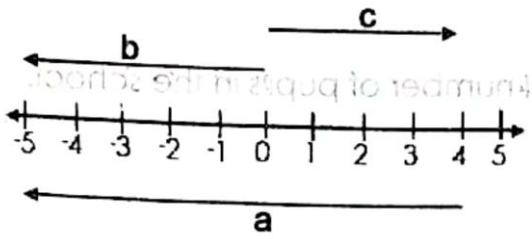
b). **Solve:** $6y - 9(y + 2) = 3$ ***(2marks)***

26.a). Convert 27_{ten} to base five. ***(2marks)***

b). Workout the sum of the place value of 5 and the value of 6 in 15968.

(3marks)

27. Study the number line below and answer questions that follow;



a). What are the integers represented by? ***(1mark @)***

(i). a = (ii). b = (iii). c =

b). Write the mathematical statement for the number line above. ***(1mark)***

28.a). **Evaluate:** $\frac{0.048 \times 1.8}{0.6 \times 0.24}$ ***(3marks)***

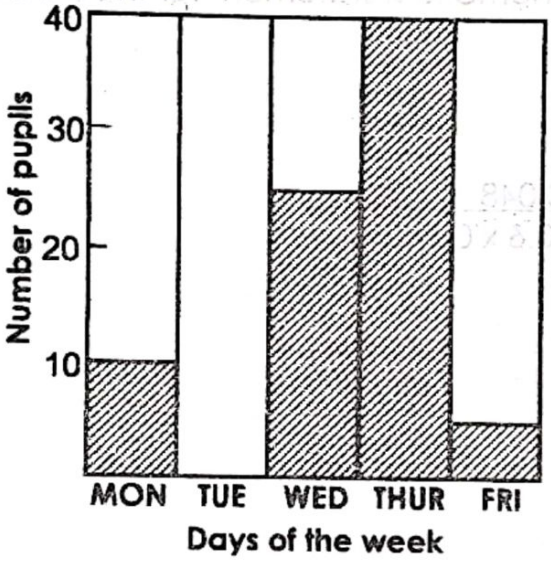
b). **Workout:** $1\frac{2}{5} \times 1\frac{1}{2}$ ***(2marks)***

29. There are 30 classrooms in a school, 14 of them have 25pupils each and the rest have 31pupils each

a). How many pupils are in 14 classroom altogether? ***(2marks)***

b). Find the total number of pupils in the school. **(2marks)**

30. The graph below shows number of pupils who were present in a class of 40pupils.



a). How many pupils were present on Friday . **(2marks)**

b). Why do you think all the pupils were absent on Thursday? **(1mark)**

c). What was the total attendance for the whole week? **(3marks)**

31. Using a ruler, a pencil and a pair of compasses only, construct a square ABCD with her diagonals reading 8cm. ***(4marks)***

32. Waswa has 2(a + 3)mangoes, Kato has 20 mangoes more than Waswa. How many mangoes does each have if they all had 64 mangoes altogether. ***(5marks)***

******End Good Luck & Success******