THE REPUBLIC OF UGANDA

LUUKA DISTRICT LOCAL GOVERNMENT

PRIMARY SEVEN MOCK EXAMINATION 2023

MATHEMATICS

Time allowed: 2 hours 30 Minutes

Index No.	Random No.						Personal No.		

Candidate's Name: .....

Candidates's Signature:.....

School Random No. .....

District ID: .....

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 - pen or ink
4. Unneccessary changes of work may lead to loss of marks
5. Any hand writing that can not easily be read may lead to loss of marks.
6. Do not fill any thing in the boxes shown: **" For Examiners' Use only"** and those inside the question papers

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		

SECTION A (40 Marks)

1. Divide: $15 \div 5$

2. Given that set F = {a, b, c, d, e, f, g}
F n G = {a, e, g}. Find n(F - G)

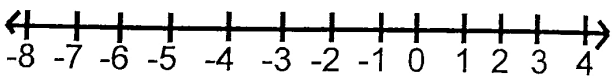
3. Workout: $\frac{3}{5} - \frac{3}{7}$

4. Calculate the median of the following numbers 8, 3, 5, 9, 7, 3

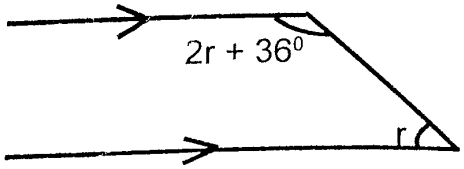
5. Write in figures:
"thirteen thousand, thirty"

6. Simplify: 3k + 2 - (k - 3)

7. Workout 3x -2 using the number line below



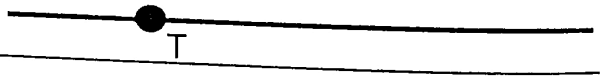
8. Find the value of r in the figure below



9. Convert 5:25pm to 24 hour clock system

10. Abdu is thinking of a number less than 60. Every time he divides this number by 12 and 16 he has 4 as a remainder, what number is he thinking of?

11. Using a ruler, pencil and protractor only draw angle MTN = 120^0 at point T and label it.



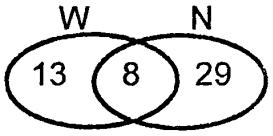
12. Change $0.3m^2$ to square centimeters

Turn Over

13. Use distributive property to work out:
(15 X 93) - (73 X 15)

14. Two angles $(P+12^0)$ and $(P-4^0)$ are complementary. Find the value of P.

15. Use the venn diagram below to answer the question that follows.



Find $n(WnN)^1$

16. Given that m =25 and n = -3.
Find the value of $2m - n^2$

17. Four men can dig a pit latrine in 9 days. How many more men are needed to dig the same pit latrine in only 3 days working at the same rate.

18. With out dividing, show whether 9349 is divisible by 9.

19. Round off 4765 to the nearest hundreds.

20. Find the H.C.F of 18 and 30

Turn Over

Section B (60 Marks)

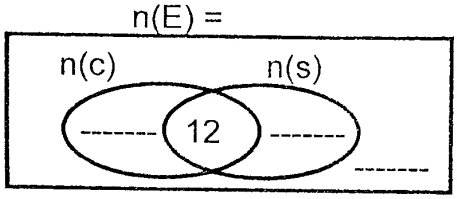
21. The sum of three consecutive odd numbers is 87.

a) Find the numbers, if the median number is h

b) Calculate their range

22. In a company, workers registered banks in which they have account numbers. (2y + 1) workers registered only centenary bank (c), 40 registered stanbic bank (s) and 12 workers registered both centenary and stanbic bank. While (y - 7) workers never registered any bank.

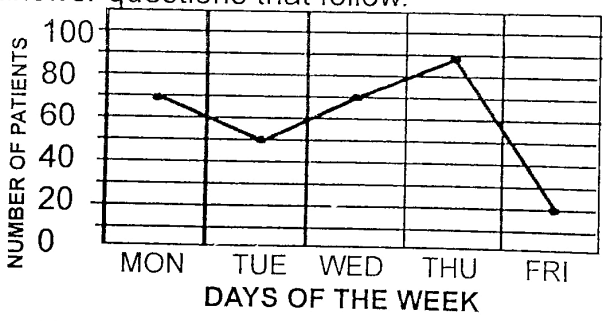
a) Use the above information to complete the venn diagram below (3Marks)



b) Find the value of y, If 59 workers registered only one bank. (2 Marks)

c) How many workers have account numbers in centenary bank? (1Mark)

23. The graph below shows how patients visited a health centre in a week. Use it to answer questions that follow.



a) On which day was the least number of patients recorded? (1Mark)

b) How many patients visited the health centre on wednesday? (1Mark)

c) How many more patients visited the health centre on monday than on Friday? (1 Mark)

d) What was the average number of patients recorded in that week? (2 Marks)

24. a) Solve for X : $2(x + 3) - (x - 4) = 21$ (2 Marks)

b) Solve the inequality: $-4 < 3p + 2 < 17$ (2 Marks)

The time table below shows how a student spent his time on Saturday. Study and use it to answer questions that follow:-

TIME	ACTIVITY
7:20 am - 11:50am	Slashing
12:30 p.m - 1: 30pm	Washing
2:00pm - 3:45pm	Playing
5:00pm - 7:30pm	Reading

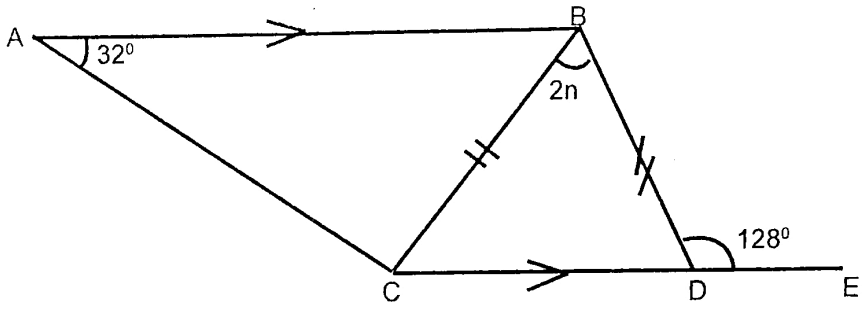
a) What activity took place between 5:00pm and 7:30pm? (1Mark)

b) How long did the student take washing his clothes? (2Marks)

c) If the student slashed the compound at a rate of 50 square metres for every 45 minutes, Find the area of the compound he slashed. (3Marks)

Turn Over

26. In the figure below, CDE is a straight line, $\overline{AB}$ is parallel to $\overline{CE}$ and BCD is an isoscles triangle. Angle BDE = 128^0 and angle BAC = 32^0. Use it to answer questions that follow.



i) Find the value of n (2 Marks)

ii) Calculate the size o angle ACB (2 Marks)

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27. A teacher awarded 5 marks for every correct answer and deducted 2 marks for every wrong answer.

a) If a pupil got 19 correct answers in an examination of 25 questions, how many marks did the pupil get? (2 Marks)

b) If Sarah got 80 marks in an examination of 30 questions, how many correct answers did she get using the above award? (2Marks)

a) Write the place value of each digit in ; 21_{three} (1 Mark)

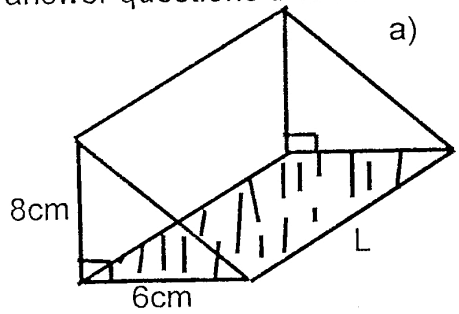
b) Work out: $110_{two} - 11_{two}$ (2 Marks)

c) Find the value of P : $104_{P} = 29_{ten}$ (2 Marks)

29. a) Find the product of 7843 and 12. (2 Marks)

b) Workout: $108 + 42 \div 3$ (2 Marks)

30. The figure below represents a triangular prism whose volume is 480cm3. Use it to answer questions that follow.



a) The figure has ..... edges. (1 Mark)

b) Find the length L of the figure above (2 Marks)

c) Calculate the area of the shaded face (2Marks)

31. District A registered 5600 candidates for 2022 PLE. 75% of the candidates were girls and the rest were boys. $\frac{3}{4}$ of the girls passed the examinations and $\frac{2}{5}$ of the boys failed.

a) What percentage of the candidates were boys? (1Mark)

b) How many candidates altogether, passed 2022 PLE in District A (5Marks)

32. a) Using a pair of compasses, ruler and pencil only, construct triangles MAG where angle MAG = 105^0 side MA = 6.5cm and side AG = 8cm in the space below. (4 Marks)

b) Measure angle AGM _____ (1 Mark)