OMORO DISTRICT ACADEMIC COMMITTEE
PRIMARY SEVEN PRE-P.L.E ASSESSMENT 2024
MATHEMATICS

TIME ALLOWED 2 HOURS 30 MINUTES

EMIS NO.						PERSONAL		

CANDIDATE'S NAME:..

CANDIDATE'S SIGNATURE: ....

DISTRICT:...

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. 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. 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 be easily read may lead to loss of marks.
7. Do not fill any thing in the boxes indicated: "For Examiners" Use only and those inside the question paper.
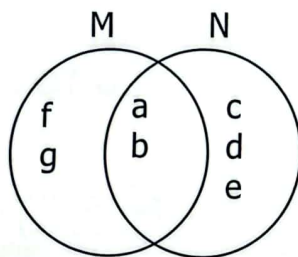
SECTION A

1. **Work out:** 235 - 24

2. Find the square root of $6\frac{1}{4}$

3. Study the venn diagram below and answer the questions that follow

M   N

f
g

a
b

c
d
e

How many elements are in set **MnN?**

4. Find the next number in the series below.

3, 4, 7, 13, _____

5. **Simplify:** $\dfrac{5}{6} - \dfrac{1}{3} + \dfrac{1}{2}$

6. Given that the median of two numbers is 9. find the first number if the second number is 15.
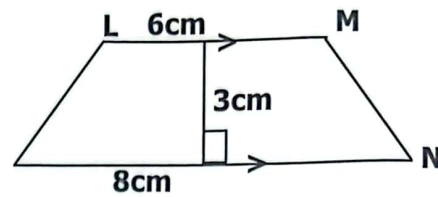
7. Using a ruler, a sharp pencil and a pair of compasses only, construct an angle of 150^0 in the space provided below.

8. Anyadwe went to school at 8:30am and escaped from school at 1:35pm How long did she stay at school?

9. **Simplify:** $^-6 - {^-9}$

10. **Solve:** $\dfrac{2y}{3} - 4 = 6$

11. Study the figure below and calculate its area.

12. Given that the cost of 6 pencils is sh. 3,000. Find the cost of each pencil.

13. Cathy was born in MCMXLIX. Wite the year in words.

14. Given that the prime factors of 72 are $(2_3, 2_1, 3_2, 2_2, y)$
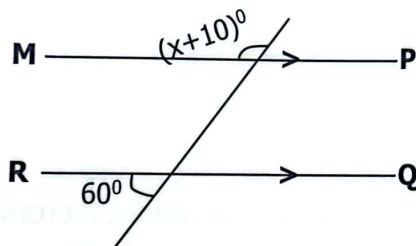
Find the value of **y,**

15. Express 100cm as a percentage of 2m

16. Find the number which has been expanded below.
$(6 \times 10^2) + (4 \times 10^{-1}) + (5 \times 10^0)$

17. Study the table below and complete it using the equation $y = 2x + 1$

X	-1	___	2	0
Y	-1	3	___	1

18. Given that the MP is parellel to line RQ. Study it and answer the question below

M ──── $(x+10)^0$ ────P

R ──── 60^0 ────Q

Find the value of **X**.

19. What is 3/4 of sh. 2800?

20. Change 250mm to dm.
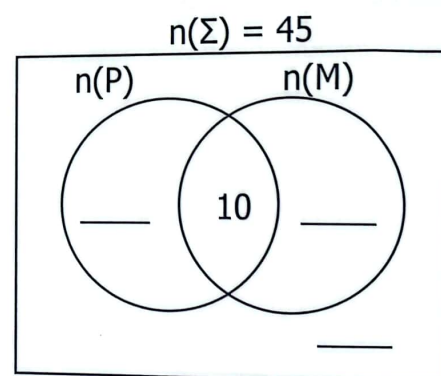
SECTION B

21. The venn diagram below shows the number of guests in a party, where 20 guests took Pepsi (P) only, (x+2) guests took Mirinda (M) only, 10 guests took both drinks and 5 guest did not take any drink.

a) Complete the venn diagram below. (3mks)

n(Σ) = 45

n(P)   n(M)

___   10   ___

___

21b) Find the value of x. (3mks)

22a) Find the value of 6 in the number
76014.   (2mks)

b)   Express the number formed from
22(a) above under the digits of
tens and ones in binary base
(2mks)

23   Three persons **P, Q** and **R** shared
some amount of money in the ratio
of **2:3:5. R** earned sh. 60,000
more than **P.**

a)   How much did they share
altogether? (3mks)

b)   How much did **Q** get? (02 mks)

24.   Study the taxi timetable scheduled
and use it to answer the questions
that follow.

Station	Arrival	Departure
Kitgum	_____	11:30a.m
Lira	12:05p.m	12:15p.m
Mbale	2:30p.m	2:45p.m
Kampala	4:00p.m	

a)   Write the departure time for the
taxi in 24 hour clock system from
Kitgum.   (1mk)

b) How long did the taxi rested at Lira? (1mk)

c) If the distance from Kitgum to Kampala is 270Km. Calculate the average speed for the whole journey. (3mks)

25. Sandra was sent to the market to buy the following items.
2kg of meat at sh. 28,000
2¹/₂kg of rice at sh. 4,000 per kg
200gm of salt at sh. 3,500 each kg

a) How much did she spend on the above items? (3mks)

b) If she was given a change of sh 1,300, how much money did she have before? (2mks)

26. The sum of 3 consecutive odd number is 21. Given that the second number is (P-1)

a) Find the value of P. (3mks)

b) Work out the prouduct of the second and the third number (2mks)

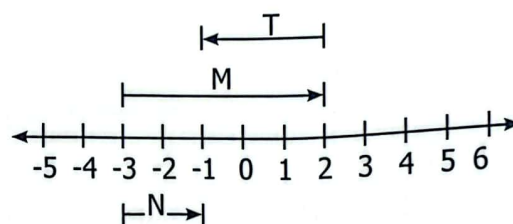27. Solve and find the solution set for;
$2y + 5 \geq 1$ (4mks)

28. Given that the distance from town **P** to town **Q** is **80km** on bearing of **060°** and direction of town **R** from town **P** is **S90°E** a distance of 120km. (Use scale 1cm : 20Km)

a) Draw an accurante diagram to show the location of the three towns.
(5mks)

b) Find the shortest distance from town **Q** to town **R**. (1mk)

29. Cosmas borrowed some money from Kwiteber Finance Company at a rate of 2% per annum for 2 years. If the amount withdrawn at the end of the 2 years is sh. 5,200,000. Find the money borrowed. (5mks)

30. Use the numberline drawn below to answer the questions that follow

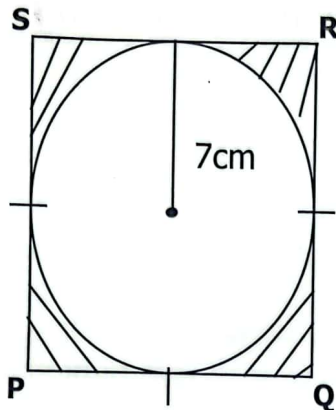a) Name the integers represented by the letters (1mk each)

M _____

T _____

N _____

b) Write the mathematical statement for the above numberline (2mks)

31. **Study the figure below and answer the questions that follow (Use: $\pi = \dfrac{22}{7}$)**

7cm

a) Find the side PQ (1mk)

b) Calculate the area of the shaded part. (3mks)

c) Find the circumference of the unshaded part. (2mks)

32. Samon left home at 6:00am travelling at 45Km/hr for 60 minutes to the bank, he stayed for 15 mins at the bank and continued to the office for a distance of 54km for 1 hour. Draw the graph to represent his journey. (4mks)

Distance in Km

90
72
54
36
18
0

6:00am 6:30am 7am 7:30am 8am 8:30am

Time in hours