ATLAS JUNIOR ACADEMY – LUGOBA NABWERU

MOCK EXAMINATIONS 2023

MATHEMATICS

PRIMARY SEVEN

Time allowed: 2 hours 30 Minutes

Name: ....Index No.: ....

FOR EXAMINER'S USE ONLY

Read the following instructions carefully.

1. This paper has two sections: A and B
2. Section A has 20 questions (40 marks)
3. Section B has 12 questions (60marks)
4. Answer all questions. All answers to both sections A and B must be written in spaces provided.
5. All answers must be clearly written using blue or black ball point pen or ink.
6. Unnecessary changes of work may lead to loss of marks.
7. Any handwriting that cannot be easily read, may lead to loss of marks.
8. Do not fill anything in the boxes indicated. For official use only.

FOR EXAMINER'S USE ONLY		
Qn. No.	MARKS	EXR'S NO.
1 – 10		
11 – 20		
21 – 22		
23 - 24		
25--26		
27 -28		
29- 31		
32		
TOTAL		

1. Subtract: 2 0
          − 5
        _____

2. Write 14,090 in words.

3. Express XCIV as Hindu Arabic numerals.

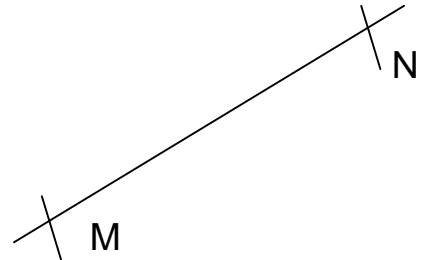4. Describe the unshaded region in the diagram below.
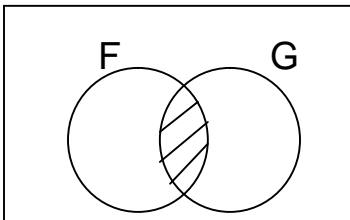
5. How many 500gm packets can be obtained from a bag of 50kg?

6. Find the next number in the sequence.
    2, 4, 12, 24, 72, _____

7. After covering 6km of the journey, Namakula still had $\frac{2}{3}$ of the journey to cover. How long was the journey?

8. Using a ruler, a pencil and a pair of compasses only, bisect the line segment MN.

9. Increase 1800 goats in the ratio of 4:3.

10. The school bursar issued receipt numbers from MN290 to MN349. If each receipt she issued was worth sh200,000, find the total amount of money she collected.

11. Round off 39. 96 to the nearest tenths.

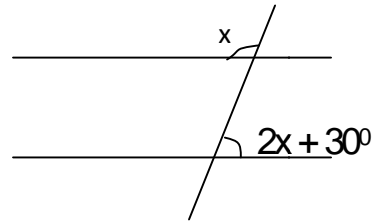12. Find the size of the angle marked **m** in the figure below.
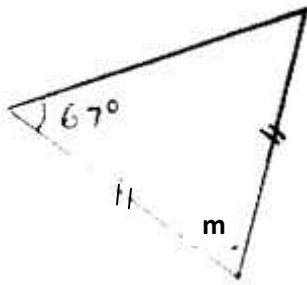
13. Write the number whose scientific form is 2.015×10^3.

14. Work out:

Hours	Minutes
5	20
- 2	55

15. Tress are planted along a straight road at an interval of 10m. Find the distance between the first and the eleventh pole.

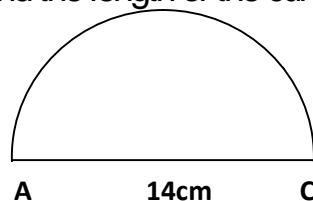16. Solve the inequality: $3 - 2p \geq 9$

17. In the figure below, find the value of **x** in degrees.

$2x + 30^0$

18. Express 0.25 as a percentage.
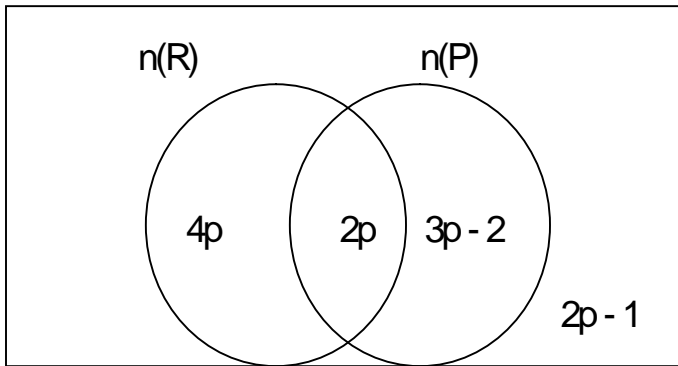
19. A car travelled for a distance of 72km in one hour. Express this speed in m/s.

20. Find the length of the curve AC.

A   14cm   C

SECTION B (60 MARKS)

21. The Venn diagram below shows the number of pupils who eat rice (R), Posho (P) and those who eat neither of the two types of food at Villa Maria Primary School, Masaka.

n(R)   n(P)

4p   2p   3p - 2

2p - 1

a) Given that 17 pupils dislike rice, find the value of p.   **(2marks)**

b) How many pupils like rice but not Posho?   *(1mark)*

c) If a pupil is picked at random from the class, what is the probability of picking a pupil who does not eat posho?   *(2marks)*
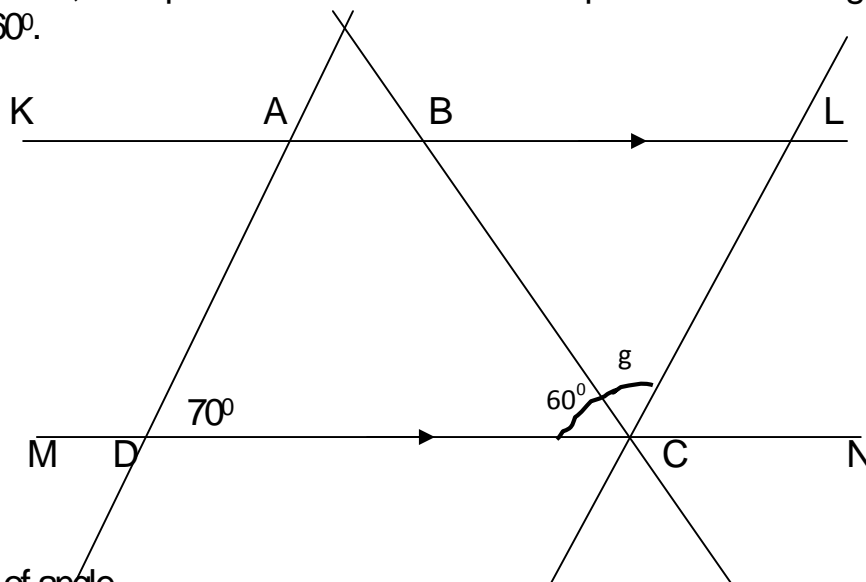
22. a) Change $\frac{4}{11}$ to recurring decimal.   *(2marks)*

b) Simplify: $\dfrac{1.45 - 0.55}{0.08 + 0.28}$ *(3marks)*

23. a) In a class, there are 40% more boys than girls. Find the percentage of girls in the class.

(2marks)

b) If there are 140 boys, how many pupils are in the class altogether?   *(3marks)*

24. In the figure below, KL is parallel to MN and ABCD is a quadrilateral with angle ADC=70^0 and angle BCD=60^0.

Find the size of angle
   a) DAB   *(2marks)*

   b) g   *(2marks)*

25. a) Subtract: $2(x-1)$ from $3x-1$ **(2marks)**

b) Solve for p: $3p-6-2p+4=10$ **(3marks)**

26. Use a sharp pencil, a ruler and a pair of compasses only to construct a quadrilateral PQRS where PQ=7cm $< p=60^0$, $< Q=120^0$ and QR = 4cm. drop a perpendicular line from R to meet PQ at K. **(5marks)**

b) Measure line RK. **(1mark)**

c) Find the area of the quadrilateral PQRS. **(1mark)**

27. Ben spent $\frac{1}{3}$ of his salary on food, $\frac{1}{6}$ of it on fees, $\frac{1}{3}$ of the remainder on rent and saved sh 60,000.

   a) What fraction of his salary does he save? *(3marks)*

   b) Find his monthly income. *(2marks)*

28. The table below shows marks scored by candidates from Namugongo Primary school in mathematics midterm II examinations.

Marks scored	70	60	95	73	80	50
No. of pupils	4	5	2	2	3	1

   a) How many pupils sat for the Midterm II examinations? *(1mark)*

   b) Calculate the range of the marks. *(1mark)*

   c) Find the mean score for the candidates who scored below 73. *(3marks)*

29. Katongole is four times as old as his son. After six years, the difference in their ages will be 30 years, how old is Katongole now? *(4marks)*

30. The table below shows the buying and selling rates of foreign currencies at a forex bureau in Jinja city.

Currency	Buying rate	Selling rate
1US dollar	Ugsh 3500	Ugsh 3600
1Ksh	Ugsh 30	Ugsh 34
1British pound	Ugsh4200	Ugsh4500

a) How much money will a trader get in Uganda shillings when he has 400 British pounds? *(2marks)*

b) If a watch costs Ksh 30000, find the cost of th is watch in USdollars. *(3marks)*

31. The interior angle of a regular polygon is 36^0 more than its exterior angle.
   a) What is the size of each exterior angle? *(2marks)*

b) What is the name of the polygon? (2marks)

32. The table below shows the fraction of textbooks in the school library. Study it carefully and answer the questions which follow.

Subject	Fraction
Science	$\frac{1}{5}$
Mathematics	$\frac{1}{3}$
Others	y

a) Find the value of y. *(2marks)*

b) Draw an accurate circle graph of radius 3.5cm to show the above information. *(4marks)*