PEAK JUNIOR SCHOOL AND DAY CARE NAKABUGO

MID OF TERM I EXAMINATIONS 2025
P.7 MATHEMATICS SET ONE

Time allowed: **2** hours 30 minutes

Pupil's Name: _____

DO NOT OPEN THIS BOOKLET UNLESS YOU ARE TOLD TO DO SO

Read and follow these instructions carefully:

1. This paper has two sections: **A** and **B**. Section A has **20** questions and section B has **12** questions. The paper has **15** printed pages.
2. Answer all questions. **All** answers to both sections **A** and **B** must be shown in the spaces provided.
3. All answers must be written using a **blue** or **black** ball point pen or ink. Any answer written in pencils other than on graphs and diagrams will not be marked.
5. No calculators are allowed in the examination room.
6. Unnecessary changes in your work and handwriting that cannot easily be read may lead to **loss of marks**.

FOR EXAMINERS USE ONLY		
QN. NUMBER	**MARKS**	**EXAMINER'S INITIAL**
1 -10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 53		
54- 55		
TOTAL		

Do not fill anything in the table indicated: "**FOR EXAMINERS' USE ONLY**" and boxes inside the

SECTION A (40 Marks)

1. Add **46 + 94** and represent your answer in Roman numerals.

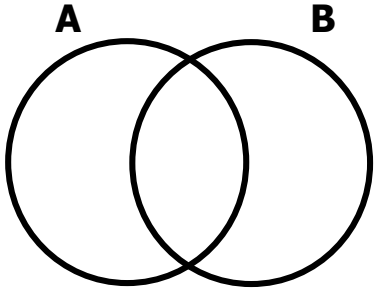
2. Find the product of 35 and 22.

3. Express 2.5 kg to grammes.

4. Solve the equation below.

   3p + 4 = 19

5. Shade (AnB)' in the venn diagram below.



6. Find the sum of the missing numbers in the sequence below.

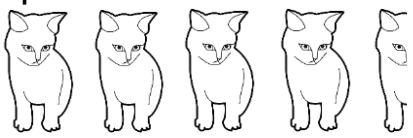
   4, 8, 12, 14, _____, _____

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

8. Workout: - 10 – 7

9. If set P = { a, b, c }. How many proper subsets are in set P?

10. Round off 2.08 to the nearest tenths.

11. Given that  represents 30 cats in a village. How many cats are represented by  in the village?

12. Using a ruler and a pencil, draw line segment **MN** of length 65mm.

13. Use distributive property to work out.

(4 x 2.5) + (6 x 2.5)

14. Find the range of the following.

6, -2, 10, 4, -4, -9

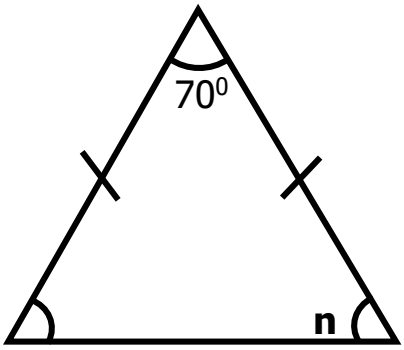
15. Write 20,904 in words.

16. How many half litter bottles can be obtained from 4 litters of milk?

17. A square garden has its sides measuring (y + 5) cm. Find its perimeter.

18. Find the smallest number when divided by 8 or 12 leaves 3 as remainder.

19. Find the size of angle **n** in the figure below.



20. Mark has a bundle of two thousand shilling notes number consecutively from XY562201 to XY562300. How much money does he have?

SECTION B (60 Marks)

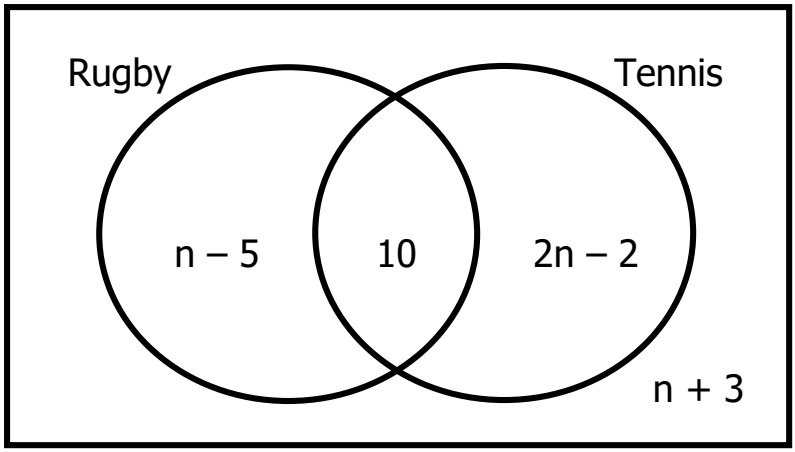
Marks for each question is indicated in brackets.

21. Alfred deposited sh. 4,000,000 in a bank and after 9 months, he found out that the money on his account had accumulated to sh. 4,360,000. At what simple interest rate had the bank increased the money on her account? ***(5 marks)***

22. (a) Workout: $332_{five} - 23_{five}$ ***(2 marks)***

(b) Given that $203_{\mathbf{m}} = 165_{ten}$. Find the unknown base **m**. ***(3 marks)***

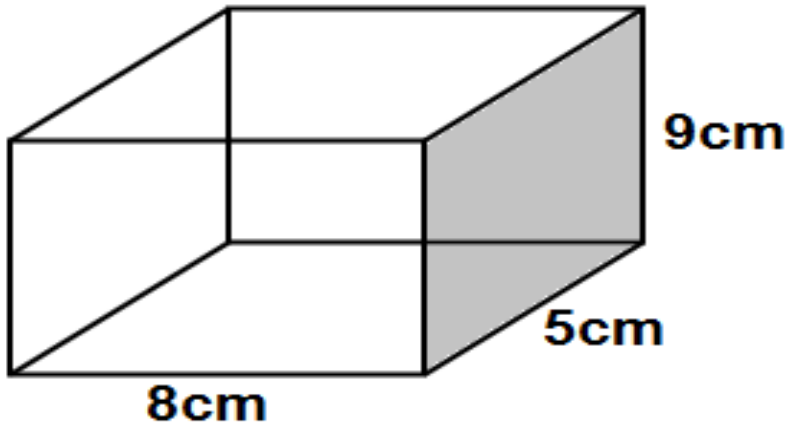
23. Study the venn diagram below and answer questions that follow.



(a) Given that the number of pupils who play tennis is twice those who don't play it. Find the value of **n**. ***(3 marks)***

(b) Find the number of pupils who do not play rugby. ***(2 marks)***

24. Study the figure below and answer questions that follow.



a) Calculate the capacity of the figure above. ***(3 marks)***

b) Find the area of the shaded region in millimeters. ***(2 marks)***

25. Simplify (a) $\frac{0.32+0.04}{0.9}$ ***(3 marks)***

(b) $\frac{5}{6} - \frac{1}{2} \div \frac{2}{3}$ ***(2 marks)***

26. Three bells ring at the intervals of 20 minutes, 30 minutes and 45 minutes respectively. If they ring together at 4 : 30a.m. When will they ring together again? ***(5 marks)***

27. The table below shows scores by a group of pupils. Study it carefully and answer the questions that follow.

Marks scored	80	60	90	70
Number of pupils	2	3	1	4

a) How many pupils did the test? ***(1 mark)***

b) Find the median mark. ***(2 marks)***

c) Calculate the mean. ***(2 marks)***

28. Solve:

a) 2x < 4 ***(1 mark)***

b) $1\frac{1}{2}n - 6 = 9$ ***(2 marks)***

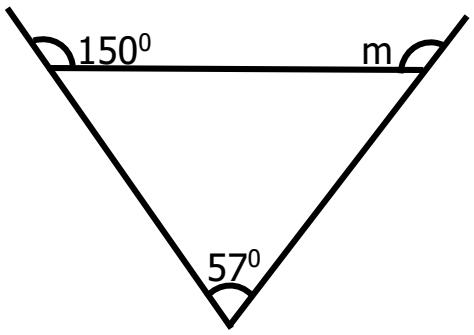
c) If a = 2, b = -3 and c = 4. Find the value of $\frac{2bc}{ab}$.***(2 marks)***

29. a) A school has 900 pupils. 9% of them are absent. How many pupils are present? ***(3 marks)***

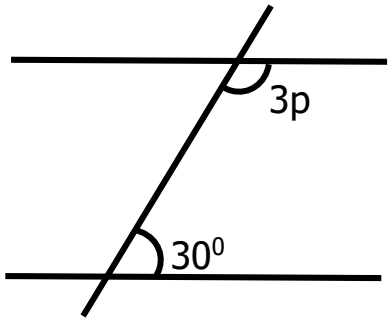
b) Express $12\frac{1}{2}\%$ as common fraction. ***(2 marks)***

30. Find the unknown angles below.

a) ***(3 marks)***



b) ***(2 marks)***



31. a) Write 0.00378 in standard form. ***(2 marks)***

b) Find the value of 9 in 0.249. ***(1 mark)***

c) Change 1101_{two} to decimal base. ***(2 marks)***

32. Mr. Zulu the Zaka from South Africa budgets his monthly salary as follows:

$\frac{1}{4}$ for food.

$\frac{1}{6}$ of it for transport.

$\frac{1}{3}$ of it for rent and the rest for other expenses.

Using a circle of radius 4cm, construct a pie chart to represent the above information. ***(5 marks)***

Wishing You Success

THE END