THE **MILESTONE** EXAMINATIONS 2024

P.6 BEGINNING OF TERM II
MATHEMATICS

Time allowed: 2 hour 30 minutes

Pupil's Name: ………………………………………………………..…………...

Pupil's Signature: ……………………………………………………..………….

School Name: ……………………………………..………………………………

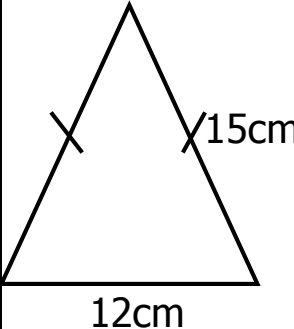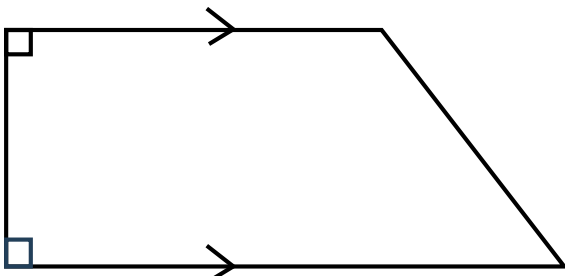## Read the following instructions carefully;

1. This paper has two sections: **A** and **B**

2. Section **A** has **20** questions **(40 marks)**

3. Section **B** has **12** questions **(60 marks)**

4. Answer all questions. All the working for both sections **A** and **B** must be shown in the spaces provided.

5. All working must be done using a blue or blackball point pen or ink. Any work done in pencil will **NOT** be marked.

6. Unnecessary changes in your work and handwriting that cannot be easily read may lead to loss of marks.

7. Do not fill anything in the table indicated **"For Examiners' use only"** and the boxes inside the question paper.
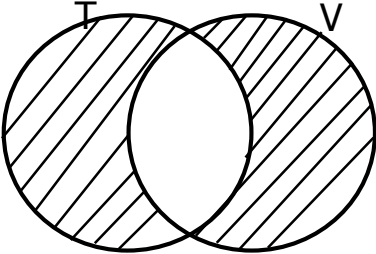
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SECTION A (40 MARKS)

1	Work out: 15 + 81	**2**	Write 49,094 in words
3	Given that set P = {p, e, n}. Find the number of subsets in set P	**4**	Simply 2y + 5x + y - 2x.
5	Find the sum of the next two numbers in the sequence: 2, 3, 5, 7, ____, ____	**6**	Calculate the perimeter of the figure below. 15cm 12cm
7	Name the shape below. 	**8**	Joan has 44 goats in her farm. Express the number of goats she has as a roman numeral.

9	There are 3 black pens, 2 red pens and 4 blue pens in the box. What is the probability of picking a blue pen from the box?	**10**	Work out: $\frac{2}{5} + \frac{1}{3}$

| 11	Round off 5,972 to the nearest hundreds.	12	In the Venn diagram below, describe the shaded part.
13	Kapimpini bought 4500g of Sugar. How many Kilograms of sugar did Kapimpini buy?	**14**	Three shirts cost Shs. 21,000. Find the cost of 5 similar shirts.
15	A mathematics lesson started at 2:35 pm and ended at 3:45 pm. How long did the lesson last?	**16**	Using a ruler, a pencil and a pair of compasses only. Construct and angle of 60⁰.
17	The average mass of 3 boys is 24 kg. If the mass of the two boys is 50 kg. Find the mass of the third boy?	**18**	Simplify $^-8 - ^-5$.
19	Work out 9 - 11 + 7	**20**	Find the least number of mangoes that can be shared by 6 boys or 8 girls leaving a remainder of 3.

Page2

SECTION B (60 MARKS)

21 At a party attended by 50 guests, 28 took Soda (S), 30 took Water (W), P guests took both drinks while 4 guests did not take any of the two drinks.

a) Use the above information to complete the Venn diagram below. **3 Mks**

n (∑) = 50

n(s)= 28   n(W)= 30

P

b) How many guests took both Soda and Water? **(2 Mks)**

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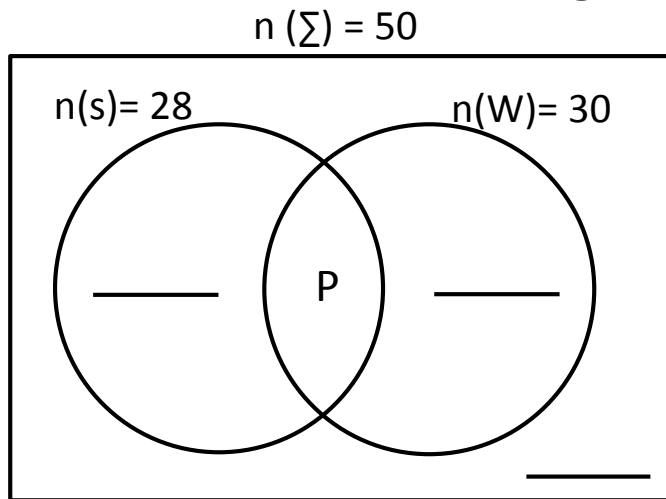
22 Study the number line below and use it to answer the questions that follow.

Q

p

-7 -6 -5 -4 -3 -2 -1 0 +1 +2 +3 +4 +5 +6 +7
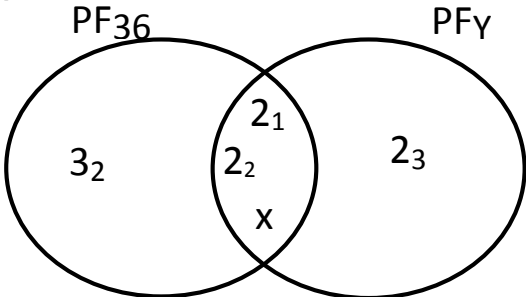
r
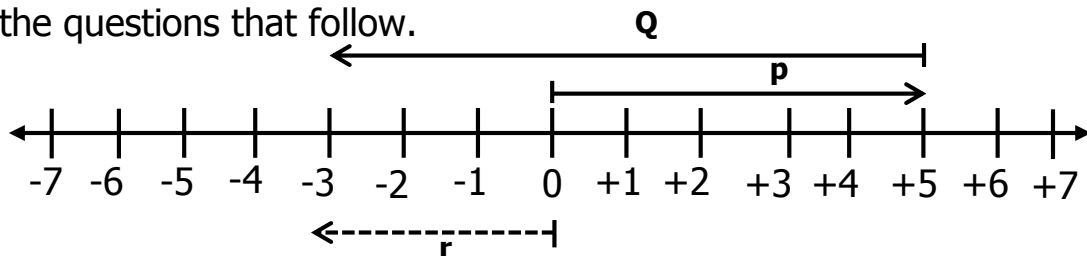
a) Write the integers represented by: **(1 Mk Each)**

(i) P: _____

(ii) Q:_____

(iii) r:_____

b) Write the mathematical sentence for the integers on the number line above. (**2 Mks**)

23	Teacher Nalugodha went to the market and bought the following items.
	2kg of sugar at Shs. 4,800 a kg.
	3 bars of soap at Shs. 5,500 a bar.
	2 loaves of bread at Shs. 12,000.
	$2\frac{1}{2}$ litres of cooking oil at Shs. 6200 a litre.

	a) Calculate teacher Nalugodha's total expenditure. **(4 Mks)**	b) If teacher Nalugodha went with a sh. 50,000 note, how much was his change? **(1 Mk)**

24	Given the number 6,243.
	a) Write the number in expanded form using exponents. **(2 Mks)**
	Find the sum of the value of 2 and the place value of 6 in the number given above. **(3 Mks)**

25	Cissy covered the floor of her bedroom using a carpet as shown in the diagram below.
	a) Calculate the area of the bed room. **(2 Mks)**

	b) Work out the area of the floor covered with the carpet. **(2 Mks)**	c) Find the area of the floor which is not covered. **(2 Mks)**
26	The sum of three consecutive odd numbers is 105. a) Find the three numbers. **(3 Mks)**	b) Calculate the range of the numbers. **(1 Mk)**
27	In a group of 120 people who attended the village meeting $\frac{1}{3}$ of them were male and the rest were female. a) What fraction of the people were female? **(2 Mks)**	b) How many more female people than the male ones attended the village meeting? **(2 Mks)**
28	The Venn diagram below represents prime factors of numbers. Study it carefully and use it to answer questions that follow. PF$_{36}$ PF$_Y$ 3_2 2_1 2_2 x 2_3	(ii) Work out the value of Y. **(2 Mks)**

	a) (i) Find the value of x. **(2 Mks)**	b) Calculate the GCD of 36 and Y. **(2 Mks)**

29	Lydia travelled from town A to town B at a speed of 120 km/h and used 45 minutes. a) How far is town B from town A. **(3 Mks)**	b) If a bus moves at a speed of 30 km/h and covers a distance of 240 km, how long does it take to cover the journey? **(2 Mks)**
30	Using a ruler, a sharp pencil and a pair of compasses only. Construct a rectangle PQRS of which length PQ = 7cm and width QR = 4cm. **(4 Mks)**	
31	a) Given that a = 3, b = 4 and c = 6. Find the value of; (i) a + b + c **(1 Mk)**	(ii) $\dfrac{ab}{c}$
	b) Nantongo is 4 times as old as Sylivia. If their total age is 30. How old is Sylivia? **(2 Mks)**	

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P.6 MATHEMATICS BEGINNING-TERM II EXAMINATIONS 2024

Page6

32 The graph below shows the number of pupils who attended school for a week at Kibalamu Primary School in Primary Six class.
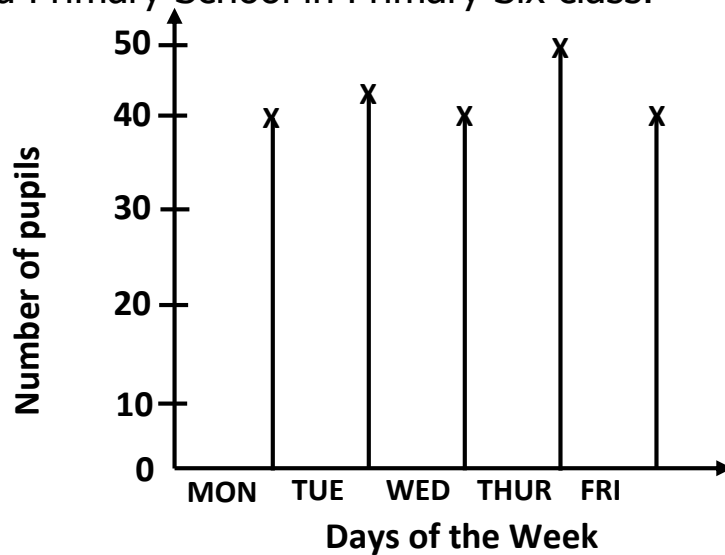
a) How many pupils were present on Tuesday?   **(1 Mk)**

b) If all pupils were present on Thursday. How many pupils were absent on Wednesday?   **(2 Mks)**

c) Calculate the average attendance of the week.   **(2 Mks)**

END