THE JEROX MID TERM I EXAMINATION 2024

Primary Six Mathematics

TIME ALLOWED: 2 HOURS 30 MINUTES

NAME _____ SIGNATURE _____

SCHOOL _____ DISTRICT _____

STREAM _____

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

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. The paper is made up of two sections A and B

2. Section A has 20 questions (**40 marks**) and Section B has **12** questions (**60 marks**)

3. Answer all questions in both sections A and B.

4. All answers must be written in the spaces provided in **BLUE** or **BLACK** ink. Only diagrams should be drawn in pencil.

5. Unnecessary crossing will lead to loss of marks

6. Poor handwriting, which cannot be easily read may lead to loss of marks.
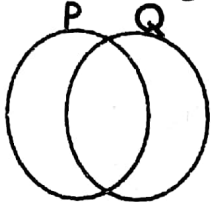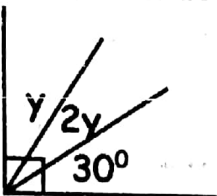
| 1 | Workout: $\begin{array}{r} 9\ 8\ 3 \\ -\ 5\ 4\ 2 \\ \hline \end{array}$ | 2 | Find the place value of **2** in the number **0.342**. |

| 3 | Shade the complement of set p in the Venn diagram below.
P   Q
 | 4 | Write **46** in Roman numerals. |

| 5 | If $a = 3$ and $b = 6$, find the value of $b^2 - 2a$. | 6 | Olive sold a bag at **Sh.60,000** making a profit of **Sh. 3000**. What was her buying price? |

| ✱ 7 | Workout: $\frac{1}{2} \div \frac{3}{4}$ | 8✗ | A football match lasted for **90** minutes. If it started at **4:30p.m**, at what time did it end? |

| 9 | Express 112_{five} as a decimal base. | 10 | Find the value of y in degrees.

Y 2y 30° |

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PRIMARY SIX MATHEMATICS MID TERM I EXAMINATION 2024
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1

11	Share **9870** cards among **5** classes.	12	Using a protractor, draw an angle of **75°**.
13	Convert **50000g** to kg.	14	Find the next number in the sequence. 1, 3, 6, 10, _____
15	The cost of **3** books is **Sh.24,000**, find number of books got from **Sh.96000**.	16	Find the average of **6, 9, 0** and **5**.
17	Mary is **32** years old now. How old will she be in **15** years' time?	18	Collect the like terms. 6e + 8y − 5e − 10y

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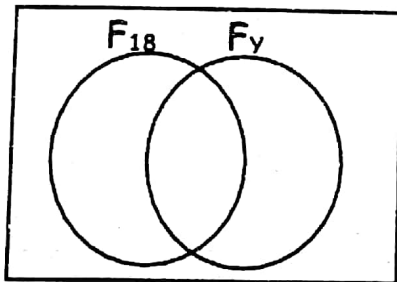| 19	Draw tallies to represent **32** mangoes.	20 *	**Simplify:** $^-6 - {}^-9$

SECTION B

21
a)

Given that $F_{18} = \{2_1, 3_1, 3_2\}$ and $F_y = \{2_1, 3_1, 5_1\}$
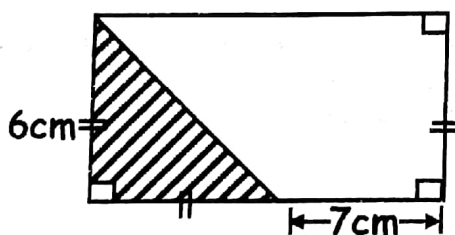
Represent the above data on the Venn diagram below.

F_{18} F_y

(03 marks)

b) Find the value of **y**.

(02 marks)

22 Study the diagram below carefully and answer the questions.

6cm=

←7cm→

a) Find the area of the outer figure.

(02 marks)

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3

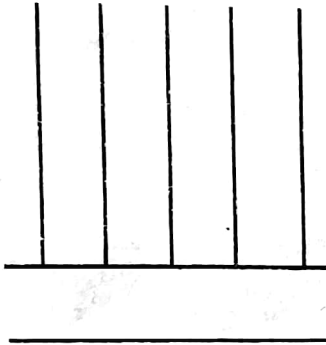| b)	Work out the area of the shaded figure. *(02 marks)*	c)	Calculate the area of the unshaded part. *(02 marks)*
23 a)	Represent "two thousand, forty five on the abacus below. *(02 marks)*	b)	Find the number that has been expanded to give; $(4 \times 10^{-2}) + (3 \times 10^{3}) + (7 \times 10^{1})$ *(02 marks)*
24 a)	Workout: $\dfrac{3}{4} + \dfrac{1}{5}$ *(02 marks)*	b)	Arrange the following in ascending order $\dfrac{1}{2}, \dfrac{1}{4}, \dfrac{1}{3}$ and $\dfrac{1}{6}$. *(03 marks)*

25 a)	Solve for r: $3r + 4 = 16$ *(02 marks)*

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4

b) Solve y: $5y = 5\frac{1}{2}$

(02 marks)

c) A man is **5** years older than his wife and their total age is **65** years. How long with the wife?

(02 marks)

26 Bob went to the super market and bought the following item below.

  2kg of sugar at Sh. 5000 each.

  2 bars of soap at Sh. 6000 each bar.

  3 loaves of bread at Sh. 5000 each loaf.

  $1\frac{1}{3}$ Kg of rice at Sh. 4800 each kg.

a) Calculate her total expenditure.

(04 marks)

b) Find his change, if he went with a fifty thousand shillings note.

(02 marks)

27 Given that set M = {odd numbers less than 12} and set N = {All factors of 12}.

a) List the members of set **M**.

(02 marks)

b) Find n(N – M).

(03 marks)

28 Use the number line below to answer questions that follow.

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5
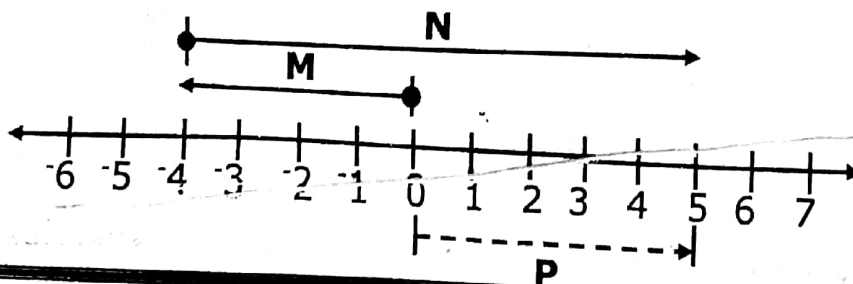
a)	Write the integer represented by the arrows above.	b)	Write the mathematical sentence shown on the above number line.
i)	M = _____		
ii)	N = _____		
iii)	P = _____		
	(03 marks)		(01 mark)

29 a)	Hours Minutes		b)	Years Months	
	5 4 0			3 6	
	- 2 5 0			+ 4 8	
	_____			_____	
		(02 marks)			(02 marks)

30 a)	Using a ruler, a pencil and a pair of compasses only construct a rectangle MNHR where MN = 6cm and NH = 3cm.
	(04 marks)
b)	Measure the diagonal line MH.
	(02 marks)

31	Study the magic square below and answer questions that follow.

8	a	6
b	5	c
4	9	2

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6

a)	Find the magic sum.	b)	Find the missing values represented by letters.

<table>
<tr><th>Value of a</th><th>Value of b</th><th>Value of c</th></tr>
<tr><td></td><td></td><td></td></tr>
</table>

a) *(02 marks)*

b) *(03 marks)*

32 The bar graph below shows the heights of children in a certain family.
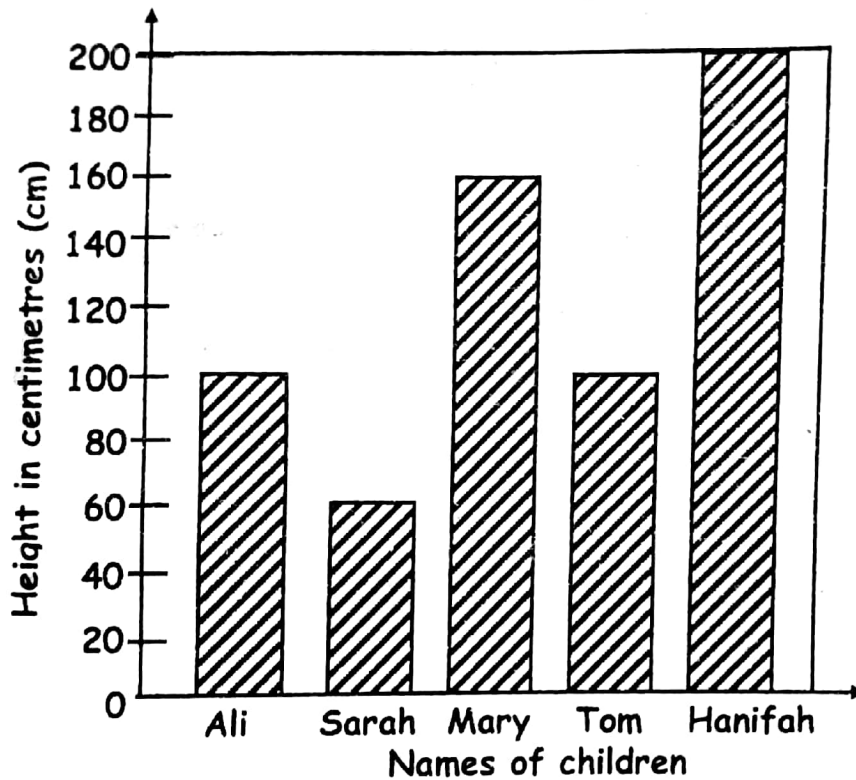
a) Who is the shortest child in the family?

(01 mark)

b)	Name the children with the same height.	c)	Find the total height of all the children in the family.

b) *(01 mark)*

c) *(02 marks)*

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