THE SIPRO MID-MARCH EXAMINATIONS -2024

PRIMARY SEVEN MATHEMATICS

Time Allowed: *2 Hours 30 Minutes*

Index No.	Random No.						Personal No.		

Candidate's Name :

Candidate's signature :

School Random No :

District: ID :

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. Attempt all questions in both sections. All answers to both sections **A** and **B** must be written in the spaces provided.
5. All answers must be written in blue or black ball point pens or **ink**. Only diagrams and graph work must be done in **pencil**.
6. Unnecessary **alteration** of work will 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 EXAMINER'S USE ONLY"

For Examiner's Use Only;

PAGES	MARKS	INITIALS
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Total		

Please turn over

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SECTION A: 40 MARKS

Attempt **all** *questions in this section*

Questions **1** to **20** carry **two** marks each

1. Work out:

weeks	days
2	3
+ 4	2

2. Draw tallies to represent 24.

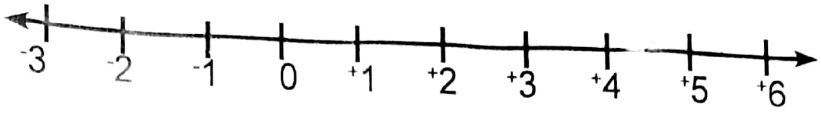
3. If set **M** = {1, 3, 5, 7, 9}
   set **B** = {2, 3, 5, 7, 11}
   Find n(**B**-**M**)

4. List all **factors** of 18.

5. Aisha deposited bank notes numbered consecutively from **AB 27069** to AB 27091. How many notes did she bank?

6. **Multiply:** $1\ 1_{two}$
   $\times\ 1\ 1_{two}$

7. Use the number line below to work out $^{+}2 - {}^{+}5$.

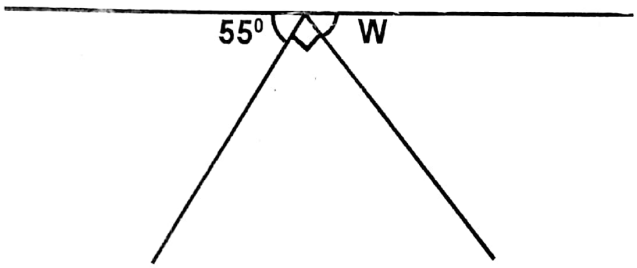


8. Change **2400** millilitres to litres.

9. Round off **67925** to the nearest thousands.

10. **Work out:** $\frac{3}{5} - \frac{1}{4}$

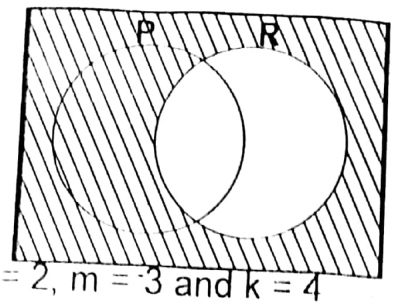
11. Find the size of angle marked **W**.



12. Lule scored the following marks in mid-term examinations: **60, 75, 70, 80, 50** and **60**. Find his median mark.

13. Express **20** metres per second to kilometres per hour.

14. Describe the shaded region.



15. If n = 2, m = 3 and k = 4

Evaluate: $\frac{mk}{n}$

16. Calculate the **area** of a circle whose diameter is 28cm $\left(\text{use } \pi = \frac{22}{7}\right)$

17. Expand **9672** using values.

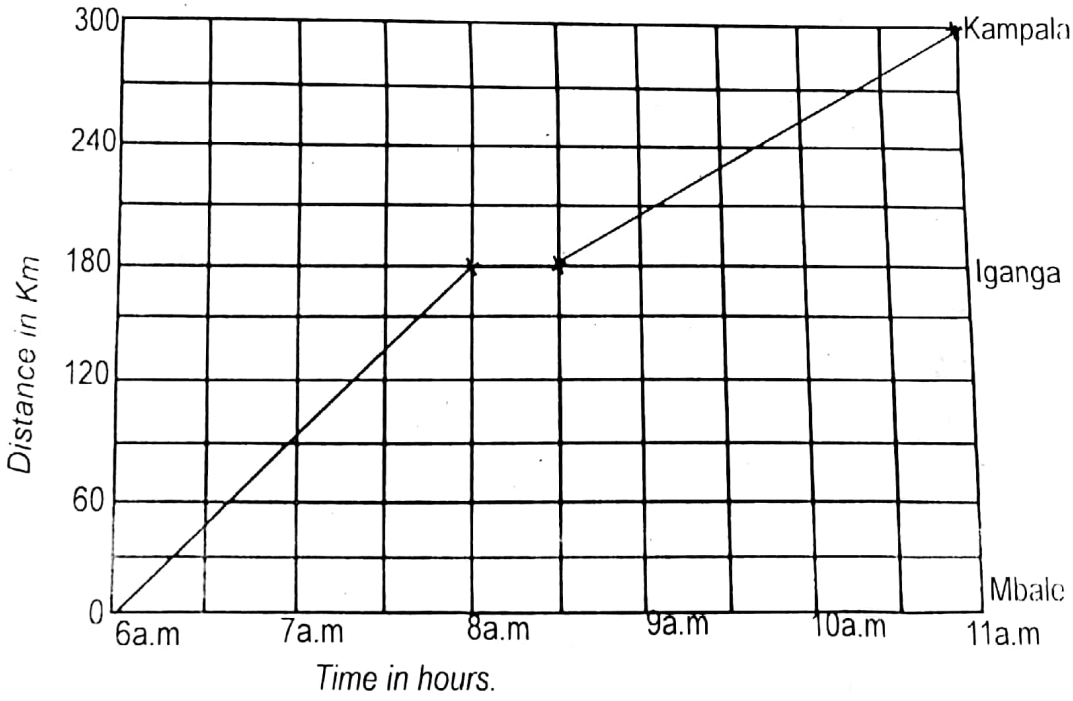
18. Given that **25b** is a three-digit number which is divisible by **3.**
Find the value of **b** if the sum of digits is **9**.

19. **Work out** 0.72 x 0.3.

20. Using a ruler, a pencil and a pair of compasses only, construct an angle of 45^0.

23. Using a ruler, a pencil, and a pair of compasses only, construct a triangle **ABC** in which line **AB = BC = AC = 7cm.** *(04 Marks)*

24. **The travel graph shows the section of a journey covered by a bus from Mbale to Kampala via Iganga.**



a) At what **time** did the bus arrive at Iganga? *(01 Mark)*

SECTION B: 60 MARKS

Attempt **all** *questions in this section.*
Marks for **each part** *of the question are* **indicated** *in the brackets.*

21. Mariam is 12 years older than Annet. In 2 years time, their total age will be 36 years.

a) Find the **present** age of Annet. *(03 Marks)*

b) How old will Mariam be in **2 years**. *(02 Marks)*

22. **Below is the exchange rate table showing the buying and selling rates of currencies.**

Currency	Buying rates in Ugx	Selling rates in Ugx
1 US dollar	UGX: 3600	UGX: 3650
1 Kenya shillings (Ksh)	UGX: 29	UGX: 30

a) Nabwire has **Ug sh.14,6000,** how many US dollars will she get ? *(02 Marks)*

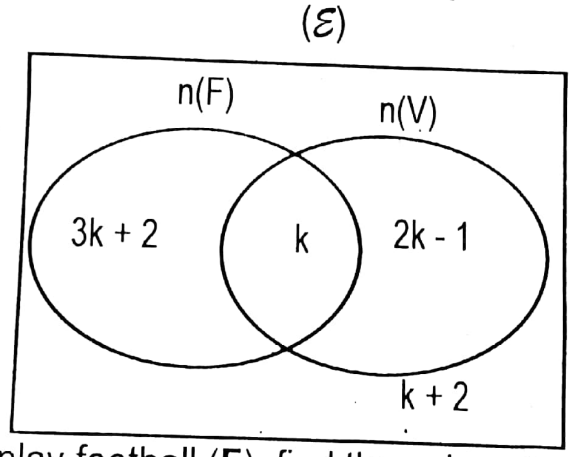
b) A trader has **4000** Kenya shillings and **300** US dollars. Find how much in Uganda shillings will she have altogether? *(03 Marks)*

b) For how long did the bus stay at **Iganga**?

(01 Mark)

c) Calculate the **average speed** of the bus for the whole journey. *(03 Marks)*

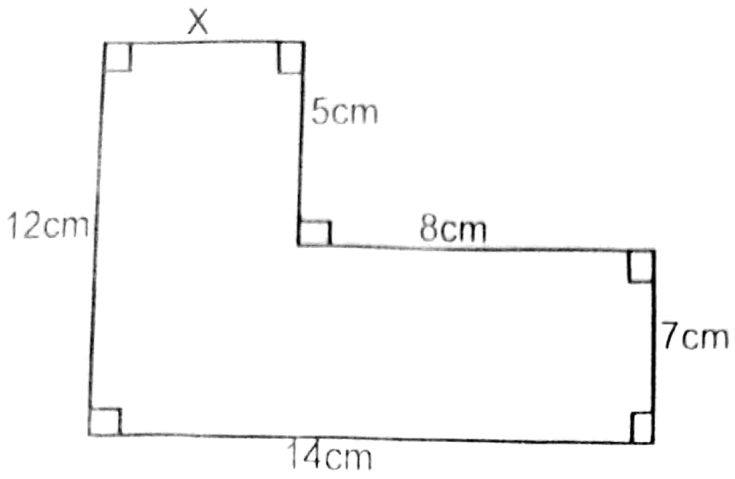
25. The venn diagram below shows pupils who play football (**F**), both games and volleyball (**V**). **Use it to answer the questions that follow.**



a) If **22** pupils play football (**F**), find the value of **k**. *(03 Marks)*

b) How **many** pupils are in the class? *(03 Marks)*

✓26. The figure below shows two different rectangles that were combined to form an L shape. **Use it to answer the questions that follow.**



a) Find the value of **X**. *(02 Marks)*

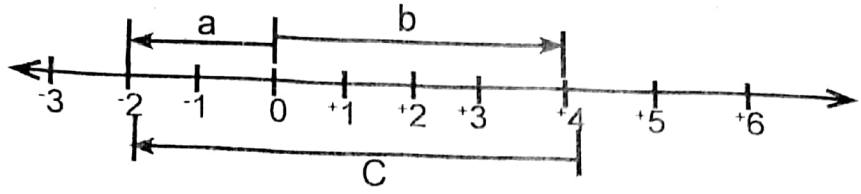
b) Calculate the **area** of the shape. *(03 Marks)*

27. On a farm, there are **20%** more cattle than goats.

a) Find the **percentage** of goats on the farm. *(02 Marks)*

b) If there are **120** animals, how many cattle are on the farm? *(03 Marks)*

28. **Study the arrows shown on the number line below to answer the questions that follow.**



a) Give the value of:

i) a =

ii) b =

iii) c =

(03 Marks)

b) Write the mathematical **subtractional** statement for the above arrows on the number line.

(02 Marks)

29. *Use the table below to answer the questions that follow.*

a) How many pupils sat for the examinations?

(02 Marks)

marks scored	80	70	60	90	50
number of pupils	1	3	2	3	1

b) Calculate the mean mark.

(03 Marks)

30. a) **Simplify** (134 x 67) + (33 x 134) using distributive property. *(02 Marks)*

b) A farmer collected 6 trays of eggs on his poultry farm and gave 20 eggs to each of his friends. How many friends is the farmer having? *(03 Marks)*

31. Two bells for lower primary and upper primary rang at intervals of 30 minutes and 45 minutes respectively.

a) Find the duration the two bells will take in minutes to ring together. *(02 Marks)*

b) If they rang at **10:30am**, when will they ring together at the same time? *(03 Marks)*

32. a) **Work out:** $2\ 4\ 1_{five}$ + $1\ 3\ 3_{five}$ *(02 Marks)*

b) Convert 1101_{two} to base ten. *(03 Marks)*