THE SIPRO MID-TERM II EXAMINATIONS -2023

PRIMARY SEVEN MATHEMATICS

Time Allowed: *2 Hours 30 Minutes*

	Random No.						Personal No.		
Index 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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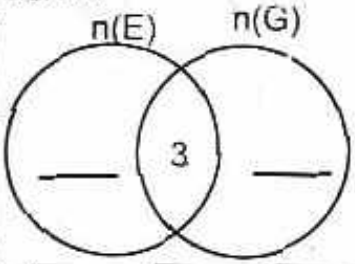
SECTION: 40 MARKS

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

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

1.	**Work out:** 1 4 x 2	2.	Write **XLII** in words.
3.	**Simplify**: 4e-(5 - e)	4.	Express **40cm** as a percentage of **2m**.
5.	Given that set: E= {a, b, c, d, e, f, h} and G ={e, c, n, r, k, b, q, w, j}: **complete** the venn diagram below.  	6.	Which number has been **prime factorised** to get {2,3, 5}?
7.	The match started at **11:45am** and ended at **1:15pm**. How **long** did the match take?	8.	Rebecca is 3.4 **metres** tall. What is her height in **centimetres**?

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9.	Find the **probability** of getting an **odd** number from set **P**. Given that set **P**= {0,1,2,3,4,5,6,8,9}	10.	**Simplify:** 3 - 4 = _____(mod6)
11.	Sandra has bank notes numbered from **EQ004300** to **EQ004399.** If each note was worth sh.5000 in value, how much money did she have?	12.	Using a ruler, a pencil and a protractor, **draw** an angle of **130°**.
13.	**Work out:** $1\ 0\ 1_{two}$ $+\ 1\ 1_{two}$ _____ _____	14.	If set **W** has **32** subsets, how many elements are in set **W**?

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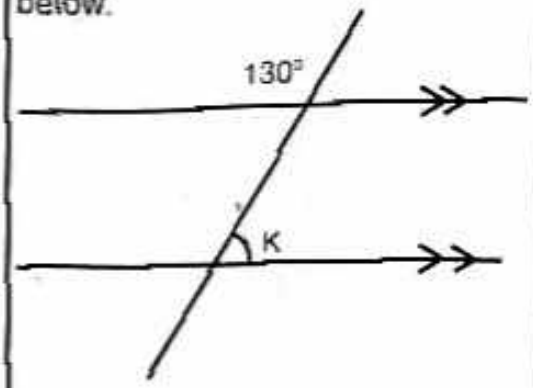
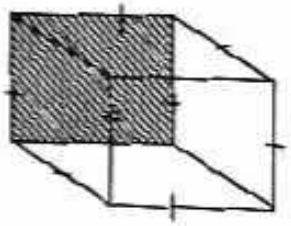
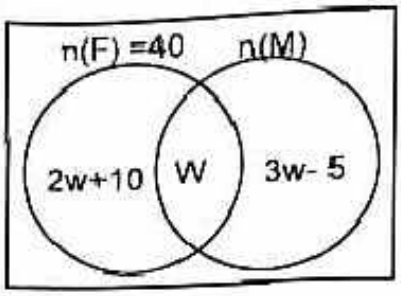
15.	Find the mean of **4r+2,5,6** and **7**	16.	Matovu sold a motorcycle at **shs.2,800,000** making a loss of **shs. 150,000**. What was his cost price?
17.	**Solve for h:** h- 6 =15	18.	Find the value of **k** in the figure below. 
19.	**12** women can do a piece of work in **5** days. How many women are needed to do the same job in 6 days?	20.	The **area** of the shaded part below is 25cm². Find its **volume**. 

SECTION B: 60 MARKS

Attempt all questions in this section.

*Marks for **each part** of the question are **indicated** in the brackets*

21. Given that **40** pupils like fish(F) and some like meat (**M**) while **W** like both sauces as shown in the venn diagram below. *Use it to answer the questions that follow.*



a) Find the value of **W**.

(02Marks)

b) Find the **number** of pupils who eat **meat**.

(02Marks)

c) Find the **total** number of pupils in the class.

(02Marks)

22. Noeline was driving a vehicle at a constant speed. She had to cover a distance of 132km in $2\frac{3}{4}$ hours.

a) Calculate the **speed** at which she was driving.

(02Marks)

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b) Calculate the **remaining** distance after driving **2 hours**.

(03Marks)

23.a) Change **1011_{two}** to decimal base.

(02Marks)

If $204_{y} = 112_{four}$ Find the **unknown base.**

(03Marks)

24. Timothy went to the shop and **bought** the following items:

$\frac{1}{2}$kg of rice at **sh.5000** each kg.

2kg of sugar at **sh. 4000** per kg

20 oranges at **sh. 3000** every 4 oranges

1kg of meat at **sh. 3500** $\frac{1}{4}$kg each.

Calculate his expenditure.

(05Marks)

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25. Kiiza scored the following marks in a weekly test **55,81,69,63,96,63** and **77**

a) What was his **modal** mark?

(01Mark)

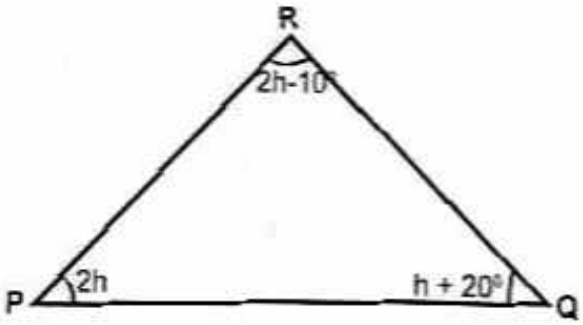
b) Find his **median** mark.

(01Marks)

c) What is the **probability** that Kiiza scored **a mark** below his average mark?

(03Marks)

26. Below is a triangle **PQR**. *Study it carefully and answer the questions that follow.*



a) Find the value of **h**.

(03Marks)

b) Work out the size of angle **PRQ**.

(02Marks)

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27 a) Given that **e = 2** and **k = -4**. Find the value of **3e + 2k.**

(02Marks)

b) Jethro is **three** times as old as Sandra. If their total age is **68** years; How old is Jethro?

(03Marks)

28. a) **Work out:**

$1\frac{1}{3} - \frac{1}{2}$

(02Marks)

b) One day, Nisha covered $\frac{1}{2}$ of her journey by taxi, $\frac{1}{3}$ of it using a motorcycle and she walked the remaining **6km**. Calculate the **total distance** she covered.

(03Marks)

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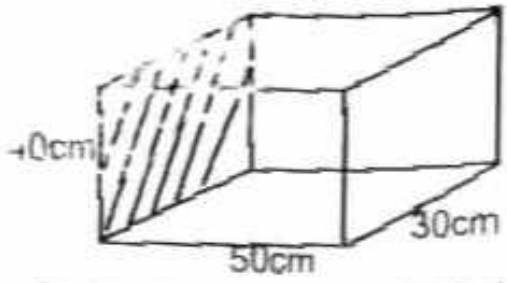
29 *Use the rectangular tank below to answer the questions that follow.*



a) Work out the **area** of the shaded part.

(02Marks)

b) Calculate the amount of water the tank above can hold if it's full in **litres**.

(03Marks)

30. a) With the help of a ruler, a pencil and a pair of compasses only, construct a triangle **PQR** in which **PQ =7cm** angle **RPQ = 120°** and **PR = 5cm**.

(04marks)

b) Measure angle **RQP**.

(01mark)

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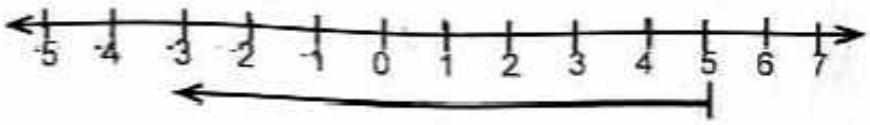
31. a) On the number line below, draw the remaining **two** arrows to complete the subtractional statement $^{-}3 - {}^{+}5 = {}^{-}8$.



(02marks)

b) If today is **Tuesday**, what day of the week was it **67** days ago?

(03marks)

32. a) Express **0.0783** in standard form.

(02marks)

b) **Work out:** (3.5 x 14) +(3.5 x 16) using distributive property.

(02marks)

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