THE SIPRO END OF TERM I 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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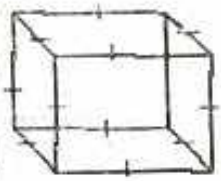
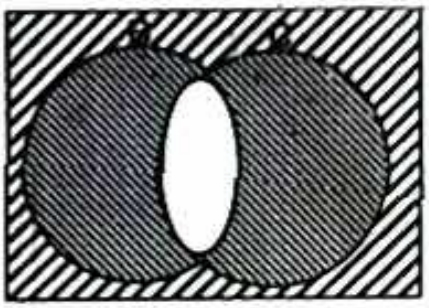
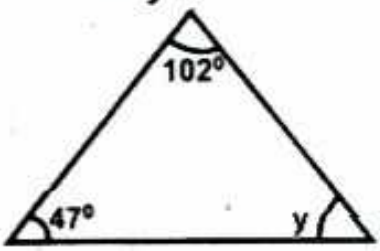
SECTION: 40 MARKS

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

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

1.	**Work out:** 1 3 x 2	2.	Write '**five thousand, four hundred nine**' in figures.
3.	If set **K**= {First four prime numbers} Find the number of subsets in set K.	4.	Use a ruler, pencil and a pair of compasses only to construct angle **45°**
5.	Name the drawn prism below. 	6.	A bus left town **A** for town **C** covering a distance of **225km** in 3 hours. Work out the speed of the bus.
7.	**Simplify:** 3 - 7	8.	Kalinaki scored the following marks: **87,78,92** and **51**. Work out his average mark.

9.	**Simplify**: $3b + 2 + 4b - 7$	10.	Find the circumference of a circle whose diameter is 14cm (use $\pi = \frac{22}{7}$)
11.	What is the next **number** in the sequence? 8, 10, 13, 18, 25, ___	12.	Describe the **shaded** region in the venn diagram. 
13.	Change $\frac{3}{4}$ to a decimal number.	14.	**PQR** is a triangle, find the size of angle marked **y**. 
15.	Prime factorise **36.** Use set **notation** to write your answer.		

16.	Express 214_{five} to base ten.	17.	In a class, the ratio of boys to girls is 3:5 respectively. Find the number of girls in class if there are 64 pupils in the class.
18.	Work out (64 x27) + (27 x 36) using distributive property.		
19.	Given that 1 dollar is equivalent to Uganda sh.3600. How many dollars will a tourist have if he has Ug.sh.1,080,000?		
20.	The product of $\frac{2}{3}$ and K is 12. Find the value of K.		

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SECTION B: 60 MARKS

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

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

21.a) Write **275** in scientfic notation.

(02Marks)

b) Work out: $101_{two} - 11_{two}$

(02Marks)

22. The sum of three consecutive **odd** numbers is **45**.

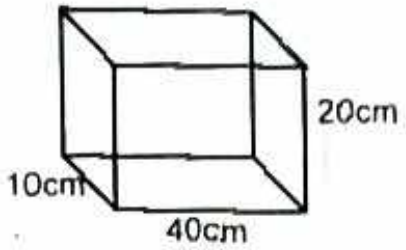
a) Find the **numbers**.

(04Marks)

b) Calculate the **product** of the **first** and **third** numbers.

(02Marks)

23. Below is a **rectangular** prism; *Use it to answer the questions that follow:*



a) Find the **volume** of the prism.

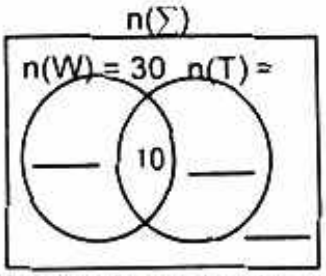
(02Marks)

b) Calculate the **capacity** of the tank when completely **full**.

(03Marks)

24. At a party, 30 guests took water (**W**) ,(**K + 8**) took tea (T) only, 10 guests took both water and tea while **K** took neither of the two drinks.

a) Use the above information to complete the venn diagram.



(03Marks)

b) If **30**guests took **tea**, find the **total** guests who were at the party.

(03Marks)

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25.a) **Draw** and find the number of folding lines of symmetry of a **square**.

(02Marks)

b) Work out the complement of **47°**.

(02Marks)

25 The pie **chart** below shows how Doreen **spends her monthly salary** of **sh.720,000**. *Study and use it to answer the questions that follow.*

a) Find the value of P in degrees.

(02Marks)

b) How much does he spend on **fees**?

(02Marks)

c) Express her expense on **rent as a percentage**.

(01Mark)

27 **Jowelia bought the following items as shown on the table below.**

a) Complete the blank spaces.

Items	Quantity	Unit cost	Total cost
sugar	2kg	sh.4500 per kg	sh.
Bread	loaves	sh.5500per kg	sh.16,500
Blueband	4tins	sh	sh.20,000
Total Expenditure			sh.

(04Marks)

b) Find her **change** if she had **fifty thousand** shillings.

(02Marks)

28. a) Use a ruler, pencil and a pair of compasses only to construct a triangle **ABC** in which angle **ABC** is 90°, **AB** is 8cm and **BC** is 6cm.

(04Marks)

b) Measure angle **BAC**.

(01Mark)

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29 a) Miiro is 13years older than Okumati and if their total age is 39 years. Find the present age of Okumati.

(03Marks)

b) How old will Miiro be in **7 years**?

(02marks)

30 a) **Work out:** $\frac{0.48 \times 0.25}{0.12 \times 0.5}$

(02marks)

b) Convert:**0.2121**..... to a common fraction.

(02marks)

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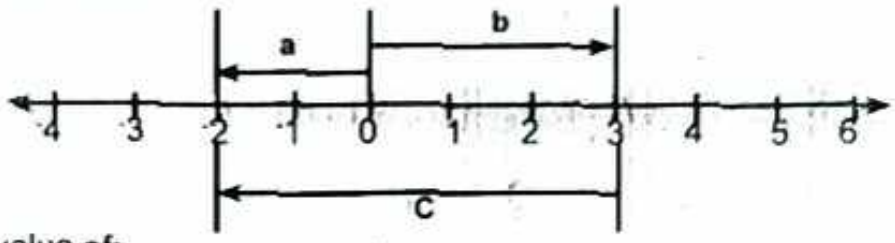
31. *Study the arrows shown on the number line below and answer the questions that follow.*



a) Give the value of:

a=_____

b=_____

c=_____ *(03marks)*

b) Write down the mathematical statement for the arrows shown on the number line above.

(02marks)

32. A taxi left town **A** at **7:00am** for town **B** at a speed of **60km/h** for 2 hours. It stayed at town **B** for an hour then returned to town **A** in only 3 hours.

a) Calculate the **distance** between the two towns.

(02marks)

b) Find the **average** speed for the **whole** journey.

(03marks)