



THE SIPRO PREMIUM SET 2023

PRIMARY SEVEN MATHEMATICS END OF TERM II EXAMINATIONS

Time Allowed: 2 Hours 30 Minutes

Index No.

Random No.						Personal No.		

Candidate's Name:

Candidate's Signature:

School Random No:

District ID:

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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/crossing** 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;

PAGES	MARKS	INITIALS
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SECTION: 40 MARKS

Attempt all questions in this section
Questions 1 to 20 carry two marks each

1. Work out: $9 \div 3$

2. Write sh.2500 in words.

3. Find the next number in the sequence:

9, 10, 14, 23, 39, 64, _____

4. Convert 0.47km to metres.

5. Given that $Y = 2x + 1$, complete the table below.

X	-2	
Y		5

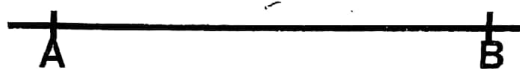
6. A mathematics examination which was supposed to take 1 hour ended at 1:25p.m. What time did it begin?

7. Simplify: $-8 - -3$



8. Using a ruler, a pencil and a pair of compasses only, **drop** a perpendicular line from point **X** to meet line **AB** at point **O**.

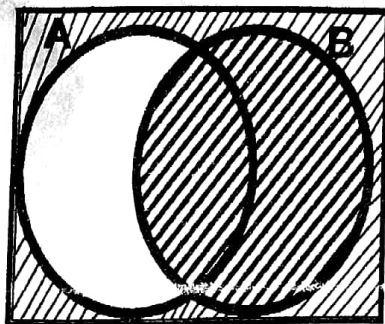
X
•



9. What number has been **expanded** to get $(4 \times 10^3) + (8 \times 10^2) + (9 \times 10^{-1})$?

10. In a class of **80** pupils, the ratio of boys to girls is **2:3** respectively. Find the number of boys in Roman numerals.

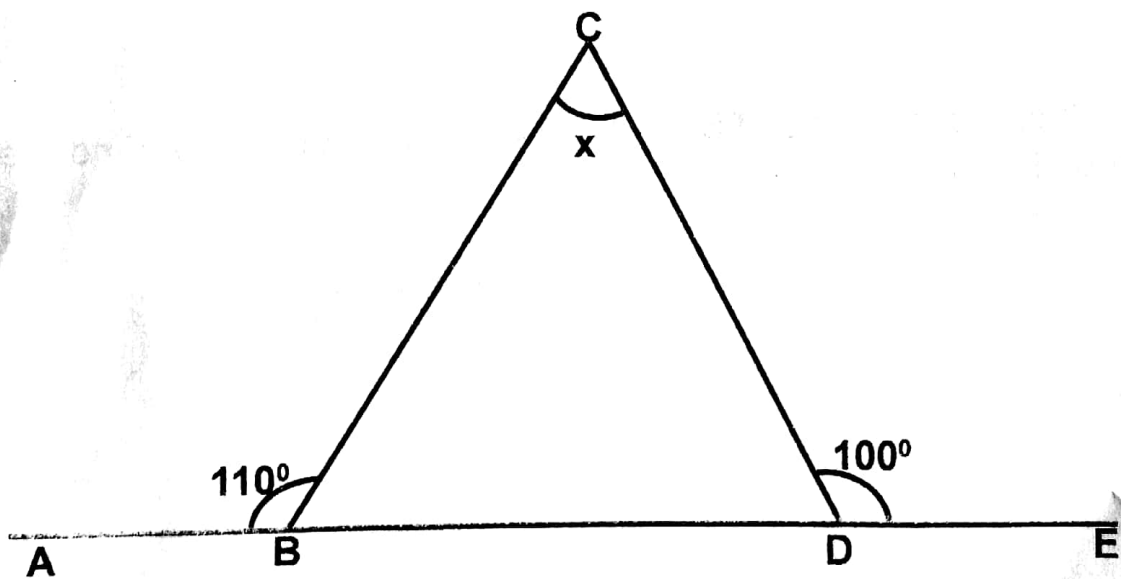
11. Describe the **shaded** region in the venn diagram below.



12. Work out the **LCM** of **12** and **18**.

13. Solve for **K**: $2k - 1 = 5$ (finite 7)

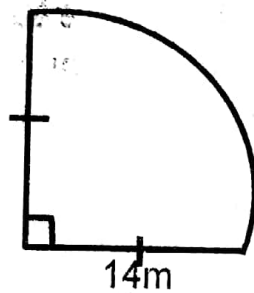
14. **ABDE** is a straight line and **BCD** is a triangle. Use it to find angle **X**.



15. The school bursar's salary of shs. 400,000 was increased by 20%.
What is his new salary?

16. Work out the **perimeter** of the figure below.

(Take π as $3\frac{1}{7}$)

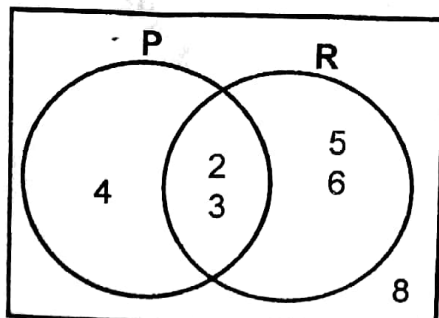


17. The sum of **two** numbers is **3**. If one of the numbers is $\frac{2}{5}$, find the other number.

18. Simplify: $\frac{48a^2b^2}{12ab^2}$

19. Write **849.5** in standard form.

20. List down all **elements** in set **P** complement.



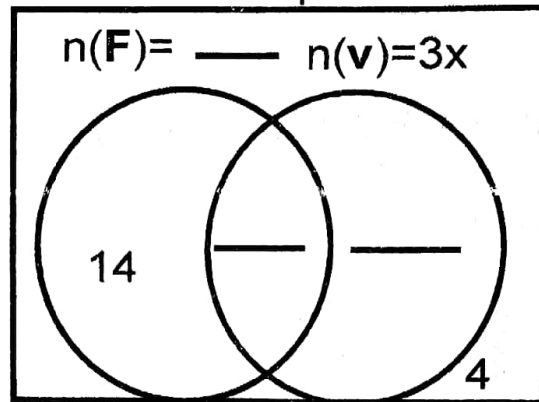
SECTION B: 60 MARKS

Attempt all questions in this section.

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

21. In a class, 14 pupils play football (F) only, 3x pupils play volleyball (V), 6 pupils play both football and volleyball while 4 pupils do not play either of the games.

(a) Use the given information to complete the venn diagram below.



(03marks)

b) Work out the **value** of **x** if there are **39** pupils in the class.

22.a) Work out: $\frac{3}{4} \div \frac{1}{6}$ of $\frac{5}{8}$

(02marks)

b) A tank is $\frac{2}{5}$ full of water. When **240** litres are drawn, it becomes $\frac{1}{4}$ full. Calculate the **capacity** of the tank when completely full.

(02marks)



23. The mean of $C - 6$, $C - 3$ and C is 12.

a) Work out the value of C .

b) Find the **median** of the three numbers.

(03marks)

24.a) Round off **237.94** to the nearest whole number.

(02marks)

b) Expand **237.94** using powers of tens.

(02marks)

(02marks)



25. Andrew is **13** years older than Johnson. In **9** years time, Andrew will be twice the age of Johnson.

a) Work out the **age** of Andrew **now**.

(03marks)

b) Solve the inequality: $2y + 2 > 10$.

26. A mother bought the following items from the shop:

(02marks)

2kg of sugar at sh. 5,200 per kg.

$\frac{1}{2}$ kg of meat at sh. 3,500 per $\frac{1}{4}$ kg.

3,000 grammes of rice at sh. 5,400 every 1,000gm.

a) Work out her bill.

b) If she was given **10%** discount on her bill, how much did she pay?

(04marks)

(02marks)

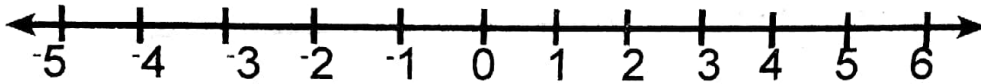


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IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE LATEST BOARD BOOKS

27.a) Use the number line to work out $-2 - +3$.



(03marks)

b) Judith went on Wednesday for term II holiday to her mother after **PLE** Examination. When was her last day in the week if she stayed for 7 days?

(02marks)

28. The **interior angle** of a regular polygon is 36° more than the exterior angle.

a) How many **sides** has the polygon?

(03marks)

b) Work out its **interior angle sum**.

(02marks)



29. The timetable below shows the departure and arrival time of the bus for different towns.

Days	Kampala	Mityana	Mubende	Fort Portal
Arrival time		8:45am	11:00a.m	1:30pm
Departure time	7:00am	9:00am	11:15am	

a) Express the arrival time at Fort Portal in **24 hour** clock time.

(02marks)

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

(02marks)

c) Calculate the distance the bus covered from Kampala to Fort Portal if it was travelling at **80km/h**.

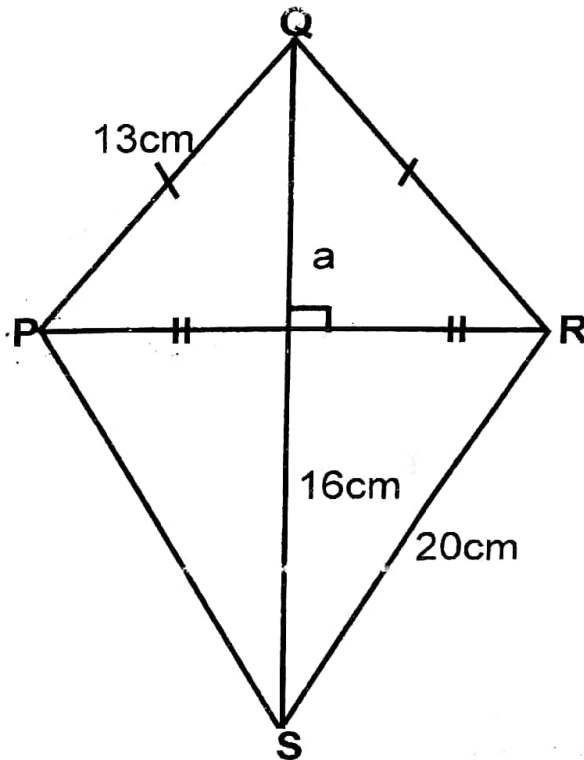
(02marks)



30. Calculate the principal that amounted to **sh.4,800,000** at an interest rate of **10%** per annum in 2 years.

(05marks)

31. **PQRS** is a kite whose diagonal **PR** is 24cm, diagonal **QS** is $(a + 16)$ cm, side **PQ** is 13cm, and side **RS** is 20cm.



a) Calculate the height of triangle **PQR**.

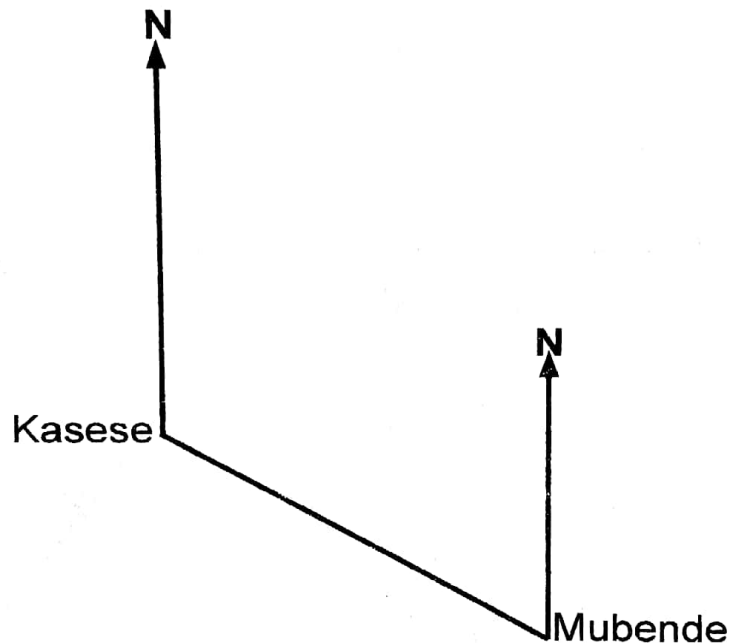
(03marks)



b) Work out the area of the kite PQRS.

(02marks)

32. The diagram below is accurately drawn showing two towns at different bearing. Use it to answer the questions that follow.



a) Measure the bearing of Kasese from Mubende.

(02marks)

b) Use a scale of 1cm to represent 20km, find the distance between Kasese and Mubende.

(02marks)

