THE SIPRO PRE-PLE SET V 2024

MATHEMATICS

				Time	Allow	ed: 2 H	ours 30 Minute	
Index No.	Random No.					Personal No.		
macx No.								
Candidate's Nam	ne:							
Candidate's Sign								
School Random								
District ID:								

READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

- 1. This paper has two sections: A and B.
- Section A has 20 questions (40 Marks).
- 3. Section B has 12 questions (60 Marks).
- Attempt all questions in both sections. All answers to both sections A and B must be written in the spaces provided.
- All answers must be written in blue or black ball point pens or ink. Only diagrams and graph work must be done in pencil.
- Unnecessary alteration of work will lead to loss of marks.
- 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;

Qn. No	MARKS	INITIALS
1-5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		1.
29 - 30		
31 - 32		
Total		

Please turn over



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SEMAS

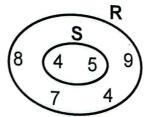
Simplified Learning Today

SECTION A: 40 MARKS

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

1. Work out:

- 2. Simplify: $\frac{1}{3} \frac{1}{12}$
- 3. Write 320,019 in words.
- 4. Given that x = 7 and y = 5. Find the value of $\sqrt{3x+3y}$.
- 5. In the venn diagram below, find $n(R \cap S)$.



- 6. Write 0.0495 in standard form.
- 7. Using a protractor and a ruler, draw an angle of **105**° in the space below.



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8.	Find	d the	next	number in the sequence	below;
	4.	12	36	108	

9. Express 7.83 decametres as metres.

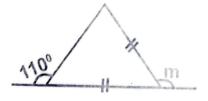
10. Given that 1 US dollar costs Ush. 3,700, how much money, in Uganda shillings will one get for 286 US dollars?

11. Simplify: 11 - 6

12. A girl read <u>2</u> of her novel and remained with **35** pages. How **7** many pages did the girl read?



13. Work out the size of the angle marked m in the diagram below.



- 14. A party that took $2\frac{1}{4}$ hours ended at 7:15 p.m. At what time did the party start?
- 15. Ten trees were planted at intervals of 100 metres. Peter walked from the 2nd to the tenth tree. Find the distance he covered.
- 16. Given that b= 2a, b = 2 and c = 4. Work out the value of ba+ac.
- 17. Find the modal frequency of 5, 3, 5, 8, 3, 5, 5, 7, 3 and 4.
- 18. Calculate the H.C.F of 20 and 30.



- Given that represents 7 fish, draw pictures to represent
 fish.
- Moses runs 400 metres in 40 seconds. Express this speed as kilometres per hour.

SECTION B: 60 MARKS

Attempt all questions in this section.

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

21. Ochola buys and sells items as shown in the table below.

Study and use it to answer the questions that follow.

Quantity	Rate at which Ochola buys	Rate at which Ochola sells
1kg of millet flour	sh. 2,500	sh. 3,000
1kg of groundnuts	sh. 5,300	sh. 6,200
1kg of beans	sh. 4,150	sh. 4,500

(a) Ochola bought **25kg** of groundnuts from Ajambo. How much money did Ochola pay for the beans? (02 marks)

(b) Find how many kilogrammes of beans Ochola bought if he used **sh. 4,025,500** on beans only.

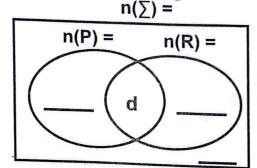




(c) Calculate the profit	Ochola	makes	when	he	sells	70kg	of
millet.							

(02 marks)

- 22. In a class, d members like both rice (R) and posho (P), d+4 members like rice only, 4d-1 members like posho only and 2d members like other foods.
- (a) Complete the venn diagram using the above information.





(03 marks)

(b) If those who like posho only are 19 more members than those who like rice only; Find the value of d.

(02 marks)

(c) Find the probability of picking a member at random who likes other foods.



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23.	The perimeter of a rectangle is 90cm	. The	ratio	of its	lenath	to
	its width is 5:4 respectively.					
,	F. J.					

(a) Find the length and width for the rectangle.

(03 marks)

(b) Calculate the area of the rectangle.

(02 marks)

24(a) Solve for y; 4(2y + 3) - 3(y - 1) = 30

(03 marks)

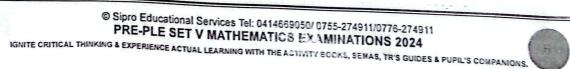
(b) Solve and find the solution set for k.2k - 1 ≤ 33

(02 marks)

25(a) Express 0.2727.....as a fraction.

(02 marks)





(b) Simplify:

1,45 - 0,55

 0.28 ± 0.08

(03 marks)

26. The table below shows how a motorist travelled from town A to town D through towns B and C. Study and use it to answer the auestions that follow

Town	Α	В	С	D	
Arrival		9:30 a.m.	10:35 a.m.	1:00 p.m.	
Departure	9:00 a.m.	9:40a.m.	11:10a.m		

(a) How long did the motorist stay at C?

(01 mark)

(b) Find the time the motorist took to travel from town B to town D. (02 marks)

(c) A motorist drove at an average speed of 60km/h. Calculate the distance she travelled from town A to town D. (02 marks)





CS CamScanner

27. A welder is to extract circular metallic designs of a door of area 616cm². How many circular designs will be extracted from a square metal of side 56cm?

(04 marks)

28. The sum of four consecutive even numbers is 108. If the greatest number is y;

(a) Find the numbers.

(03 marks)

(b) Find their range.

(01 mark)



- 29. A plane left town **A** and flew **140km** due East to town **B**, it then changed direction and flew on a bearing of **240**° to town **C** at a steady speed of **60km/h** for **2** hours.
 - (a) Draw a sketch diagram to show the positions of the three towns.

(b) Using a scale of **1cm** to represent **20km**, draw an accurate diagram to show the positions of the towns. (03 marks)





- 30. Ritah, Julianah and Safina contributed a certain amount of money to start a business in the ratio of 3:4:8 respectively. If Ritah and Juliana together contributed sh. 250,000 less than Safinah's contribution;
 - (a) How much did Julianah contribute?

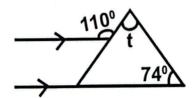
(04 marks)

(b) Express Ritah's contribution as a percentage of their total contribution.



31(a) Study the figure below and find the size of angle marked t.

(02 marks)



(b) Each interior angle of a regular octagon is (5x+30°). Work out the value of **x**.

32. Kato leaves town **K** for town **Q** through town **P** at **8:00 a.m**. He travels for 1 hour and **30** minutes at **40km/h** to town **P**. He waits for one hour at town **P** and continues to town **Q** covering a distance of **60km** in **120** minutes. At **Q**, he rests for **30** minutes and then travels back to town **K** for **2** hours.

