THE SIPRO PRE-PLE SET IV - 2023

MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

	Random No.	Personal No.
Index No.		
Candidate's Name:		
Candidate's Signature:	MEG 200 Party and Section 1980	ALLEY CHARLES TO STATE
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).
- 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	480	
16 -20		
21-22		
23-24		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
25-26		
27-28		
29-30		
31-32		
Total		

Please turn over



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SEMAS

Simplified Learning Today

SECTION A: 40 MARKS

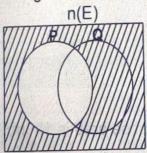
Attempt all questions in this section

Questions 1 to 20 carry two marks each

1. Work out: 85 minus 52.

2. Write 4,099 in words.

3.In the venn diagram below, describe the shaded part.



4. Work out: 3 ÷ 4 = ___(finite 5)

5. Find the next number in the sequence:

8, 27, 64, 125, ____

6. Round off 849.8 to the nearest ones.





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7. Using a ruler, pencil and a pair of compasses only, construct an angle of 105° in the space provided below.

8. Simplify: P-3 ÷ P-2

9. Calculate the perimeter of a square room whose area is 196m2.

10. Find the simple interest on sh.480,000 at a rate of 2½ per month for 3 months.

11. Simplify: 9y - (4 + y)

12. Work out the distance covered by a car moving at a speed of 96km/h for 3hours 15minutes.

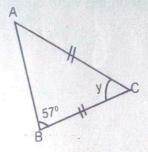
13. Mubiru scored the following marks; 83, 75, 80, 70 and 25. Find the range of his scores.

14. In a supermarket, the price of a shirt was reduced from sh.36,000 to sh.30,000. Find the percentage decrease.

15. Write 0.089 in scientific notation.

16.A bus left town A at 11:10 a.m and arrived at town B at 1:40 p.m. How long did the bus take?

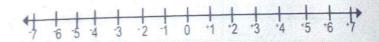
17. Calculate the value of the angle marked y in the triangle ABC.



18. The capacity of a cylindrical water tank is 0.72 litres. Express its volume in cubic centimeters (cm³).

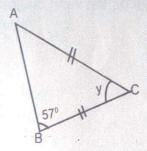
UMEME charges sh.350 for each 15 units of power consumed. 19. Andrew paid sh.8,7500, how many units did he use?

Draw arrows on the number line to show the mathematical statement for +4 + -7 = -3.



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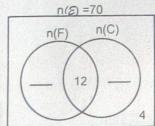
SECTION B: 60 MARKS

Attempt all questions in this section.

Marks for each part of the question are indicated in the brackets 21. In a church, 70 people attended the morning service, soda

was served, 40 people took Fanta (F), K people took Coke (C), 12 people took both kinds of soda, while 4 people did not take any of the two drinks.

a) Represent the information above on the venn diagram (02Marks) below.



b) Find the probability that a person who said a prayer (03Marks) drank Coke only.

22. a) Given the digits 4,0 and 5. Write all the possible 3 digit numbers that can be formed using the above digits without repeating any. (04Marks)

b) Subtract the smallest from the largest 3 digit number formed. (01Mark) 23.a) Using a pair of compasses, a ruler and a pencil only, construct a parallelogram ABCD in which BC =7.5cm, BA =4.5cm and angle ABC =120°. Drop a perpendicular line from D to meet BC at K. (04Marks)

b) Measure the length DK.

(01Mark)

on rent and saved the rest. If he saved sh.300,000, find his salary.

25. The table below shows different denominations Monica had before shopping. Study and use the information to answer the questions that follow.

a) Complete the blank space in the table below.

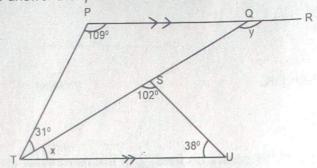
(03Marks)

Denomination	Number of notes	Amount
sh.10,000	4	sh.40,000
		sh. 60,000
sh.20,000	5	sh.25,000
sh	Total	sh

b) If Monica used 90% of the total amount for shopping and sh 4,500 for transport, how much money did she remain with? (02Marks)

26.PQT and TSU are triangles where line PR is parallel to line TU.

Use it to answer the questions that follow.



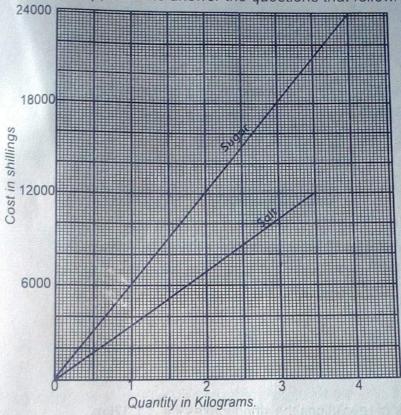
a) Find angle marked X.

(02Marks)

b) Calculate the size of the angle marked y.

(02Marks)

27. The graph below shows the cost and quantity of sugar and salt at a shop; use it to answer the questions that follow.

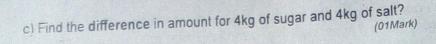


a) Find the cost of $2\frac{1}{2}$ kg of sugar.

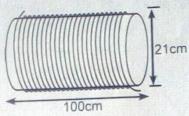
(02Marks)

b) How many kilograms of salt does sh.9000 buy?

(02Marks)



28. In the diagram below, a string is wound round a cylindrical pipe of diameter 21cm.



a) If the string is wound up 50 times, how long is the string?(02Marks)

b) Find the number of revolutions the string makes if it is 1.32km.

(03Marks)

29.a) Subtract 2k-5 from 3k +1

(02Marks)



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b) Solve the equation: 2(x-3)=6

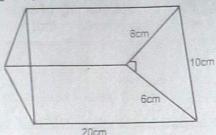
(02Marks)

- The distance between Kampala and Mbale is 270km. A bus used 5 hours to and from;
 - a) Find the average speed of the bus.

(02Marks)

b) If it used a speed of 90km/h from Kampala to Mbale, find the speed it used (02Marks) while returning.

31. Use the triangular prism below to answer the questions that follow.



a) Find the sum of the length of all its edges.

(03Marks)

b) Calculate its volume.

(02Marks)

- A director of a school received 100 shares from his teachers at a simple interest rate of 10% per annum. If each share was valued at sh.10,000;
 - a) Find the interest after 3 years.

(03Marks)

b) Calculate the **total** amount of money the director gave back to the teachers after 3 years. (02Marks)

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