# THESIPRO PRE-PLE SET II 2023

### **MATHEMATICS**

Time Allowed: 2 Hours 30 Minutes

	Random No.		Personal No.					
Index No.								
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## 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.
- 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;

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

Please turn over



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PUBLISHERS OF THE SIPRO TEACHERS GUIDES, LEARNER'S WORKBOOKS & HOLIDAY ASSIGNMENTS

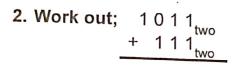


#### **SECTION A: 40 MARKS**

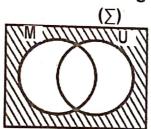
Attempt all questions in this section

Questions 1 to 20 carry two marks each

1. A class monitor was given **two** notes of **sh. 5000**, how much money has the class monitor?



3. Describe the shaded region.



**4. Simplify**; +4 - +9--2

5. Write in **figures**; "Thirteen thousand, nine hundred four and twenty eight hundredths".



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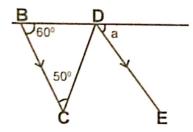
THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES & PUPE 'S COMME



6. A school has three streams, A with 16 candidates, B with 24 candidates and C with 12 candidates. The head teacher plans to buy pens for the candidates. What least number of pens can he buy for the candidates?

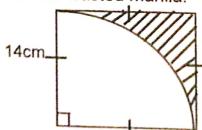
7. Solve the equation; 
$$\underline{2w} + 4 = 12$$

8. In the diagram, line BC is parallel to line DE. Find the size of angle a.



9. If represents 27 stools; Draw pictos for 108 stools.

10. A quadrant was cut out from the square manila piece of side 14cm. Find the area of the wasted manila.





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- 11. A tailor had **0.2m** piece of cloth. He cut it into **0.02m** pieces. How many **pieces** did he make from the cloth?
- 12. A test started at 2:30pm. A candidate reached 15 minutes late. If the test lasted for 90 minutes, How long did the candidate take writing the test?

13.Seven school bags cost sh.420,000. How many school bags can I get with sh.180,000?

14. Moses planted trees in a circular garden of diameter 28 metres. Work out the distance round the circular garden.(use  $\pi$  as  $\frac{1}{7}$ )



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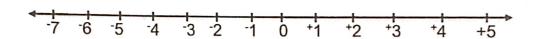
IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES & PUPIL'S COMPANIONS



15. Complete the sequence below; 2, 4, 8, 16, \_\_\_\_,

16. Expand 96,452 using exponents.

17. Plot <sup>-</sup>3, <sup>+</sup> 2, and 0 on the number line below.



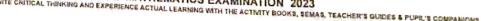
18. Find the percentage discount of an item which costed forty-five thousand shillings and a discount of one thousand five hundred shillings.

19. List the proper subsets of set R= {r,s,t}

20. Work out the average of x + 2, 2x - 4, 6 and 3x + 1.



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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. Using a ruler, a pencil and a pair of compasses, draw line AC= 4cm. Bisect AC so that the perpendicular bisector meets AC at O.On the bisector line OB= 2cm and OD = 6cm, **Join** BC, CD, DA and AB to form a quadrilateral ABCD.

(04 Marks)

b)Name the quadrilateral ABCD formed.

(01 Mark)

22. Write the co-ordinate points P,Q and R.

				+4					
			Ρ,	+3				Q	
				+2	2	74 63	1 1		2 1/
				+1					
-4	-3	-2	-1	0	+1	+2	+3	+4	+5
	,	,		-1					
	,	R		-2	9				
		•		-3			- , T		(3.6)
				-4					
				-5					

i) P	
ii) Q	
iii) R	



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(03 Marks)





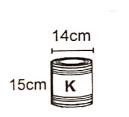
b)	Plot	the	co-ordinates	<b>S</b> (+3,	-2)
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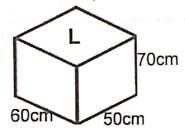
(01 Mark)

c) Join the points to form a figure and find its area.



23. Tin K is packed in box L at a milk factory.





a) How many tins will fill the first two layers?

(02 Marks)

b) Calculate the **percentage** loss the factory made if tins on the last layer got spoilt yet each tin costed **sh.4000**.

(02 Marks)







24. A mother sent her son to a shop with the list of items to buy; 2kg of sugar at sh.5500 per kg
250 gm of salt at sh. 2000 per kg.
A bar of soap at sh 6000
1 kg of rice at sh.9000

a) Prepare a shopping bill table for the list above.

Item	Qty	Unit cost	Amount
sugar			
salt			
soap	,		
rice		Jana zi a	
	Tota		

(05 Marks)

b) If the boy went with sh.20,000 and it was not enough to buy all the items, how much more money was needed?

(01	Mark)

25. a) Round off 67,864 to the nearest thousands.

(02 Marks)



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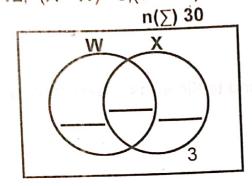


b) Malinga is XL years old now. In which year was he born?

(02 Marks)

26.a) Complete the Venn diagram with the information given:

$$(W - X) = 12$$
,  $(X - W) = 8$ ,  $(W \cup X)^1 = 3$ ,  $n(\Sigma) = 30$ 



(03 Marks)

b) What is the probability of picking a member of X complement?

(02	Marks)

27. a) Solve the inequality: 3(2 - X) ≤ X + 14

(02 Marks)

b) Give the solution set for X above.

(02 Marks)



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28. Amon divided his land; 2 to his wife, 1 less the remainder t	o the son
.5 3	
and the rest to the daughters.	
a) What fraction did he give to his daughters?	
	(03 Marks)
b) If he gave 20 acres of land to his sons, how many acres have altogether?	•
nate anogenier.	*
The state of the s	(02 Marks)
20. A warman atartad ban isawa a 10.00	
<ul> <li>29. A woman started her journey at 8:30 am from Kampala to Kashe reached Masaka, she rested for 45 minutes after cover</li> <li>180km at 90km/h. She continued to Kabale for 4 hours at 7 a) Find the woman's average speed for the whole journey.</li> </ul>	ing
ZSLO SE <sup>®</sup> C P , P Md;	
b) At what time did she reach Kabale?	(04 Marks)
	, 4
	(01 Mark)
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30. The exterior angle of a regular polygon is 1 its interior angle.
a) How many sides has the polygon?
(03 Marks)
b) Find the number of right angles in the polygon.
(02 Marks)
i all
31.a) Work out the square root of 0.0196.
radally, and a
(03 Marks)
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b) Find the number that was prime factorized to give  $\{2_1, 2_2, 3_1, 5_1\}$ .

(02 Marks)

32. a) Express the product of 364 and 5 in scientific notation.

b) Given that;  $3^n + 27 = 81$ . Find the value of n.

(03 Marks)





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