THE SIPRO PRE-PLE SET VI 2024

MATHEMATICS

Random No.

Random No.

Personal No.

Candidate's Name:

Candidate's Signature:

School Random No:

READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

District ID:

- 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/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"

For Examiner's Use Only;

Qn No.	MARKS	INITIALS
1-5		
6 - 10		
11 - 15		
16 - 20	12 1 1 2	i thin in
21 - 22.		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
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SECTION A: 40 MARKS

Attempt all questions in this section.

Questions 1 to 20 carry two marks each

- 1. Work out: 3 0 2 x 3
- 2. Given that $\mathbf{W} = \{1,2,3\}$, find the number of proper subsets in set \mathbf{W} .

3. Find the range of -3, 6, 0, -7

4. Work out; 312_{four} + 33_{four}

5. On the clock face below, represent 0015 hours.







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P.7 PRE-PLE SET VI MATHEMATICS 2024

CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTUALY BOOKS SEMAS TEACHER'S GUIDES & BURNING STATEMENT OF THE ACTUALY BOOKS SEMAS TEACHER'S GUIDES & BURNING STATEMENT OF THE ACTUALY BOOKS SEMAS TEACHER'S GUIDES & BURNING STATEMENT OF THE ACTUALY BOOKS SEMAS TEACHER'S GUIDES & BURNING STATEMENT OF THE ACTUALY BOOKS SEMAS TEACHER'S GUIDES & BURNING STATEMENT OF THE ACTUALY BOOKS SEMAS TEACHER'S GUIDES & BURNING STATEMENT OF THE ACTUALY BOOKS SEMAS TEACHER'S GUIDES & BURNING STATEMENT OF THE ACTUALY BOOKS SEMAS TEACHER'S GUIDES & BURNING STATEMENT OF THE ACTUALY BOOKS SEMAS TEACHER'S GUIDES & BURNING STATEMENT OF THE ACTUALY BOOKS SEMAS TEACHER'S GUIDES & BURNING STATEMENT OF THE ACTUALY BOOKS SEMAS TEACHER'S GUIDES & BURNING STATEMENT OF THE ACTUALY BOOKS SEMAS TEACHER'S GUIDES & BURNING STATEMENT OF THE ACTUALY BOOKS SEMAS TEACHER'S GUIDES & BURNING STATEMENT OF THE ACTUALY BOOKS SEMAS TEACHER'S GUIDES & BURNING STATEMENT OF THE ACTUALY BOOKS SEMAS TEACHER'S GUIDES & BURNING STATEMENT OF THE ACTUALY BOOKS SEMAS TEACHER'S GUIDES & BURNING STATEMENT OF THE ACTUALY BOOKS SEMAS TEACHER'S GUIDES & BURNING STATEMENT OF THE ACTUALY BOOKS SEMAS TEACHER'S GUIDES & BURNING STATEMENT OF THE ACTUALY BOOKS SEMAS TEACHER STATEMENT OF THE ACTUAL BURNING STATEMENT OF THE BURNING STATEMEN



6. 2e° and (3e-10)° are complementary angles. Find the value of e.

the is each

7.**Solve:** 3 - 3h ≥ 15

er les el siendire lech.

8. The prime factors of P and Q are $F_p = \{n, 3_1, 3_2\}$ and $F_Q = \{3_1, 5_1, n\}$. If the G.C.F is 6, find the value of n.

9. Work out;
$$(5 \times \underline{1}) - (2 \times \underline{1})$$

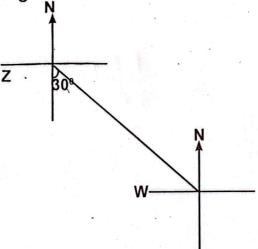
12 12

10. A hawker bought a belt at sh. 25,000. At what price should he sell if he intends to make a profit of sh.3,000?

11. Work out; 2 - 5 =____(finite 6)

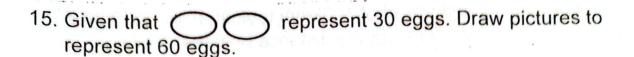
12. Obote had a tyre of radius 35cm. How many revolutions will it make to cover a distance of 11 hectometres?

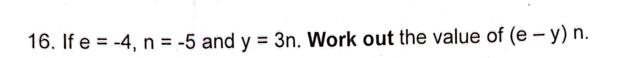
13. Find the bearing of town Z from town W in the diagram below.



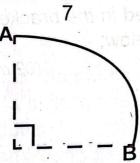
14. Increase 180 goats in the ratio of $\frac{3}{4}$: $\frac{1}{2}$







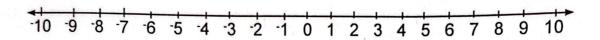
17. The length of the arc AB in the figure below is 66cm. Find its radius. (take π as $\underline{22}$)



18. **Solve** for **b**;
$$2^{3b} \div 2^{b} = 64$$

19. A motorist travelling at a speed of 120km/h took 40 minutes to travel from town **K** to town **M**. Work out the distance between the two towns.

20. Use the number line below to work out 4 x -2.



SECTION B: 60 MARKS

Attempt all questions in this section.

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

21.(a) Find the number that has been expanded below;

 $(3x10^2) + (4x10^1) + (6x10^{-2})$

(02 marks)

(b) Write 1095 in scientific notation.

(02 marks)



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





b) Jane bought a motorcycle at 325 dollars. Find the cost of motorcycle in Kenya shillings.	of the (03 marks)
A primary six pupil was given cards with digits 5, 3, 0 an form four digit numerals;	d 4 to
(a) Write the smallest and biggest numerals formed: (i) smallest numeral	(01 mark)
(i) biggest numeral	(01 mark)
b) Represent the smallest numeral on the abacus below.	(02 marks)
TH H T O	
of the policy of the second second tensor to the second se	
The exterior and interior angles of a regular polygon are ratio of 2: 3 respectively. (a) Name the polygon.	(03 marks)
선생님, 이 마리를 받는 그렇게 되었다. 이 내려가 되었다는 그 나는 아이지 않는 것이다.	

25.



24

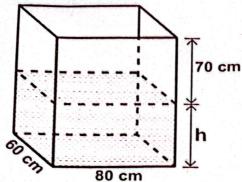




26. The tank below has 240 litres of water in it. Study it carefully and use it to answer the questions that follow.

(a) Find the value of h.

(02 marks)



(b) How many litres of water should be added to fill the tank?
(03 marks)



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PLANTING METHOD WITH THE ACTION OF SEMAS TEACHER'S GUIDES & PUPPL'S COMPANION



27.(a) Using a ruler, a pencil, and a pair of compasses only, construct a rhombus ABCD such that triangle ABC is an equilateral triangle of side 7cm.

(b) Measure diagonal AC.

(01 mark)

28. Solve for m:

(a)
$$4(m-1) - 2(m+3) = 0$$

(03 marks)

(b) Kasozi is 58 years old and Magezi is 14 years old. In how many years' time will Kasozi be thrice as old as Magezi? (03 marks)





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



29. Macula used 0.25 of her money to buy a loaf of bread,1/2 remainder for tea leaves and sugar and saves the rest. (a) Find the fraction spent on savings.	
(b) If she saved sh.3,600, find the amount of money she loaf of bread.	spent on a (03 marks)
	35
30. The median of 4 consecutive even numbers is 13; (a) Find the numbers.	(03 marks)
(b) Work out the sum of the smallest and largest num	nbers. (02 marks)





31. A cyclist travelled at a speed of 80km/h covering a certain distance from town **W** to town **Y** taking 3hours.It rested at town **Y** for half an hour before continuing to town **Z** a distance of 100km at a speed of 40km/h.

(a) How far is town Y from town W?

(02 marks)

(b) Calculate the cyclist's average speed for the whole journey.

(03 marks)

32. Given that y = 2x + 3. Complete the table below.

(05 marks)

X	0	· .	2		3
Υ		5		-3	
	4				



