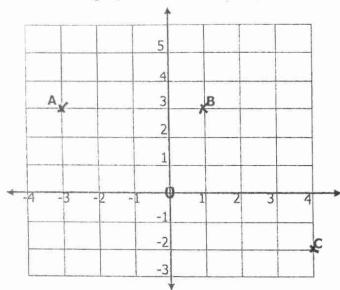
P.7 HUB SET 7 TERM III 2023 MATHEMATICS

Can	didate's Name:			
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	SECTION A			
1. What is the quotient of 27 and 9?				
2.	Given that $a = 3$ and $b = 5$. Find the value of $(b - a)^2$.			
2	Simplify: 0.24 ÷ 0.02			
٥,	Simplify. 0.24 - 0.02			
4,	Given that set $K = \{ \text{ prime numbers between 10 and 20} \}$ Find $n(K) = \{ \text{ prime numbers between 10 and 20} \}$			

5. Find the next number in the sequence below; 1, 3, 9, 27, 81, ____

6. Write 494 in Roman Numerals.

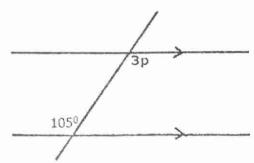
7. Use the coordinate graph to answer the question which follow;



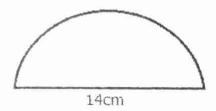
- Locate and join point ${\bf D}$ to ${\bf A}$, ${\bf A}$ to ${\bf B}$, ${\bf B}$ to ${\bf C}$ and ${\bf C}$ to ${\bf D}$ to form a right-angle trapezium
- 8. Work out: 1-3 =_____ (finite 7)

9. Subtract: **Days Hrs**7 6
-2 10

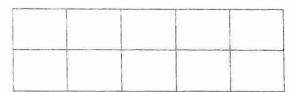
10. Calculate the value of P in the diagram below.



11. Find the perimeter of the semi-circle below. (Use $\pi = \frac{22}{7}$)



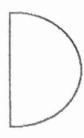
12. Shade $\frac{2}{5}$ of the diagram below.



13. A mathematics paper started at **11:20a.m** and ended at **1:50 pm**. How long did the paper last?

14. Work out: $3 \div 4 =$ (finite 5)

15. How many lines of folding symmetry has the figure below?



16. Write 4365 in scientific notation.

17. Add: 3.35 + 5

18. Write the time below in figures.

"A quarter to six in the morning."

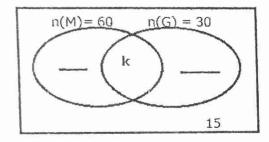
19. Three men shared sh. 6600 as follows: B got twice as much as what A got, C got 600 more than B. What did each man get?

20. Using a ruler, a pencil and pair of compasses only to construct an angle of 120°.

SECTION B

- 21. At a party attended by 100 guests, 60 guests ate Meat (M), 30 guests ate G.nuts (G), 15 guests did not eat any of the two foods while K guests ate both meat and G. nuts.
- a) Complete the Venn diagram below.

(2marks)



b) Find the value of \mathbf{K} .

(2marks)

c) If a guest is selected at random to bless the meal, what is the probability that the guest ate either meat or G.nuts? (1mark)

22a). Subtract: 1 0 1two

(2marks)

- 1 0_{two}

b) Find a number whose standard form gives 2.95×10^3 .

(2marks)

- 23. On the school trip, Zulaikah was given sh. 20,000, she spent $\frac{1}{2}$ of it on transport and $\frac{4}{5}$ of the remainder on her lunch.
- a) What fraction did she remain with?

(4marks)

b) How much money did she use for lunch?

(1mark)

24a) Solve: y - 1 = 2y + 5

(3marks)

b) Solve the inequality: 3(2 + p) < 15

(3marks)

25a) Use a ruler, a pencil and a pair of compasses only to construct a triangle ABC, such that line AB = 6cm, angle $ABC = 60^{\circ}$ and angle $BAC = 45^{\circ}$. (4marks)

b) Measure line BC.

(1mark)

26.	A rectangular garden of length 40 metres and width 30 metres is fusing posts placed at an interval of 5 metres apart.	enced
a)	How many posts were used?	(3marks)
		ē
	*	
b)	If each post cost sh. 1500. How much money was used to fence to	the garden? (2marks)
		e e
27.	A motorist leaves Hoima for Kampala a distance of 192km at 8:0 travels at a speed of 60km/hr , at 9:30am he delays for 30 minual puncture. At what speed in km/hr is he supposed to drive the redistance to reach Kampala at noon?	utes due to

28a) In a parents' meeting at a certain school, the ratio of male to female parents was 3:5 respectively. if 30 female parents attended the meeting, how many male parents were in the meeting?

(3marks)

b) If $\frac{1}{3}$ of the male parents were below the age of **40**. How many male parents were above the age of **40**? (3marks)

29. By forming an equation, find 3 consecutive odd numbers whose sum is 57. (4marks)

30. A motorist left town **A** at **7:00 a.m** and drove at a speed of **60km/hr** for $\mathbf{1}_{\frac{1}{2}}^{\frac{1}{2}}$ hours. After resting for one hour at town **B**, he continued to town **C** at an average speed of **30km/hr** for **2** hours.

a) Show the motorist's journey on the graph below. (3marks)

160

140

120

100

80

40

20

7:000a.m

3:00p.m

3:00p.m

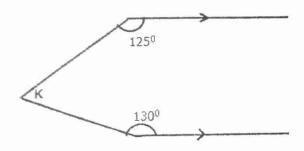
b) Calculate the average speed for the whole journey.

(2marks)

Time in hours

31a) A teacher bought 8 books at **shs** (p - **1500**) each book and **2** pens at **shs** (p + **1000**) each pen. If the teacher spend **sh. 53000** shillings altogether. How much money did he spend on books? (5marks)

32a) Find the value of angle marked **K** in the diagram below. (3marks)



b) Find the size of the angle marked ${\bf r}$ in the diagram below. .(2marks)

