MPIGI DISTRICT ACADEMIC BOARD PLE MOCK EXAMINATION 2022

MATHEMATICS PAPER

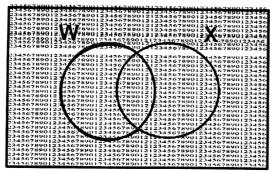
Time Allowed: 2 hours 30 minutes

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Pupil's	Name:				
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School	:				
DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO READ THE FOLLOWING INSTRUCTIONS CAREFULLY					
1.	The paper is made up of two sections: A & B.	FOR EX	AMINERS	USE ONLY	
2.	Section A has 20 questions (40 marks)	QN. NO.	MARKS	EXAMINER'S INITIALS	
3.	Section B has 12 questions (60 marks)	1 - 10		INITIALS	
4.	Answer ALL questions in both sections A & B	11 - 20			
5.	All answers must be written in the spaces	21 - 23			
	provided in BLUE or BLACK ink. Only	24 - 26			
	diagrams should be drawn in pencil.	27 - 29			
6.	Unnecessary crossing of work will lead to loss	30 - 32			
	of marks.	TOTAL		-	
7.	Poor handwriting, which cannot be easily read		1		
	may lead to loss of marks.	-			
8.	Do not fill anything in the boxes shown				
	"For Examiner's Use Only"	j			
DOS' COMMENT & ADVICE TO THE LEARNER					

SECTION: A (40 MARKS)

- 1. Add: 4 2 0
 - + 3 6
- 2. Write "Thirty seven thousand forty" in figures.

3. Describe the shaded region on the venn diagram below.



- 4. Simplify:
- 6y y w + y + 5w

5. Use the distributive property to work out; (24 x 8) + (76 x 8)

6. Round off **587** to the nearest hundreds.

7. The unshaded fraction on the figure below represents the journey covered by Andrew.

If he still had 12km to be covered, how long was the whole journey?

8. How many lines of folding symmetry does the figure below have?



9. Find the next number in the sequence below.

2, 6, 18, 54, _____.

10. Musa cut a 20metre string equally into 4 pieces. Find the length of each piece in centimetres.

- 11. Find the range of these integers;
 - ⁻6, ⁺8, ⁻2, 0 and ⁺2

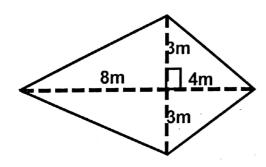
12. Given that set;

K = {All prime numbers less than 10}

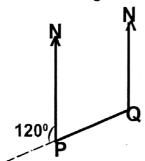
T = {All odd numbers between 0 and 10}

Find n(KnT)

13. Calculate the area of the figure below.



14. In the figure below, find the bearing of P from Q.

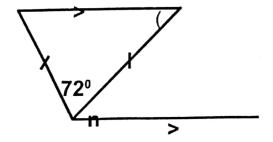


15. Using a pair of compasses, a ruler and a pencil only. Construct an angle of 45° in the space below.

16.	Work out:	Hours 1 8	Minutes 4 5
		+ _	
		1 2	4 0
			*

17. The mean of **4**, **2**x and **8** is **6**. Find the value of x.

18. Find the size of the angle marked n in degrees.



19. Find the sum of values of 6 and 8 in the number 6 9 4 . 0 8 3.

20. Solve of m. 3m - 2 = 4 (mod 5)

SECTION: B (60 MARKS)

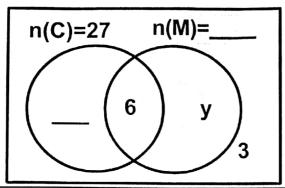
21a) Use the abacus to work out;

 $1 \ 4 \ 5 + 2 \ 1$

(3 Marks)

b) What number has been expanded to give; $(2x10^3) + (9x10^1) + (5x10^0) + (5x10^2)$?

- 22. In a village of 43 farmers, 27 of them grow Cassava (C) and y grow Maize only (M) 6 farmers grow both crops and 3 do not grow any of those two crops.
- a) Complete the venn diagram below using the above information. $n(\Sigma) = 43$



(2 Marks)

b) Find the value of y.

(2 Marks)

c) How many farmers do not grow Cassava?

(1 Mark)

- 23. In a club, 1 of the pupils are boys, 2 of the boys and 1 of the 3 4
 - girls like swimming. The club has 720 pupils.
- a) How many pupils like swimming?

(4 Marks)

b) What percentage of the pupils in the club do not like swimming?

(2 Marks)

24. Nantale went to the market and bought these items.

2kg of rice at Shs. 3500 per kg.

11/kg of sugar at Sh. 2000/- for every 500g.

24 oranges at Shs. 1500 for every 8 oranges.

3 bars of soap at Sh. 9000/-.

a) How much money did she spend altogether?

(4 Marks)

b) If she was given 10% discount, how much money did she pay?

(2 Marks)

25. In the figure below 100 tins of milk of A were used to fill container B with milk. Find the value of h. a) В 77cm (4 Marks) b) How many litres of water can tin A hold when full? (2 Marks) The interior angle of a regular polygon is 90° more than the 26. exterior angle. Name the polygon. a) (3 Marks) Find the sum of all interior angles of the above figure. b)

(2 Marks)

27.	A driver travelled at a speed of 50km/hr from town X to town	W.
	He travelled from town W back to X at a speed of 70km/hr.	
	The total time taken for the whole journey was 6 hours.	

a) Find the distance between the two towns A and B.

(3 Marks)

b) How much time did he take on the return journey?

(2 Marks)

28a) Simplify: <u>0.24 x 0.3</u> 0.06 x 0.08

(3 Marks)

b) Work out: <u>5</u> - <u>2</u>

(2 Marks)

29.	The sum of three consecutive add numbers is 60. The	a lant must	
	The sum of three consecutive odd numbers is 69. The last number is n. Work out the product of the first and second number.		
	product of the mot and ecoond half	ibor.	
		(1 Marka)	
202) Using a ruler a pencil and a pair of compasses only. C	(4 Marks)	
	triangle KLM such that line KL = 6cm, line KM = 5.5cn LKM = 120°.		
	•		
waren na my Ar		(3 Marks)	
)	Measure line LM in centimetres.		
		(1 Mark)	

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31. Find the value of x, w, p and y in the magic square below.

8	w	6
x	5	р
4	9	у

(5 Marks)

32a) Plot the following co-ordinates on the grid below.

 $P(^{+}1, 2), Q(^{+}4, 0), R(^{+}1, ^{-}2)$ and $S(^{-}4, 0)$

+7 +6 +5 +4 +3 +2 +3 -6 -3 +4 +5 +6 -4 -2 -3 -4 -5 6

(4 Marks)

b) Join and name the figure.

(1 Mark)