

KAMULI DISTRICT MOCK EXAMINATION

PRIMARY LEAVING EXAMINATION MOCK 2024

MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

	4		
Act of 1			

Candidate's Name:	
Signature:	
School:	

Read the following instructions carefully:

- This paper has two sections A and B. Section A has 20 questions and section B has 12 questions. This paper has 8 printed pages.
- 2. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
- 3. All working must be done using a blue or black ball point pen or ink. Any work written pencil other than graphs, pictures and diagrams will not be marked.
- 4. **No calculators** are allowed in the examination room.
- 5. Unnecessary changes of work will lead to loss of marks.
- 6. Any handwriting that cannot easily be read may lead to **loss of marks**.
- 7. Do not fill anything in the boxes indicated: "For Examiners' Use Only".

For Ex	xaminers' Use Only				
Qn. No.	Marks	EXR'S NO.			
Page 2					
Page 3					
Page 4					
Page 5	17 1400				
Page 6					
Page 7					
Page 8					
TOTAL	Pal Year				

@KDME 2024

1. Add 178 + 821

2. Given that $A = \{a, b, c, d, e, f\}$ and $B = \{a, e, i, o, u\}$, find n(AUB)

- 3. Write in figures "two million, two hundred forty-six thousand, three hundred eighty-four"
- 4. Work out: $\frac{5}{6} \frac{3}{4}$
- 5. Work out: -8 -3
- 6. Find the value of x in the figure.

7. Write the next two numbers in the sequence: 2, 3, 5, 7,

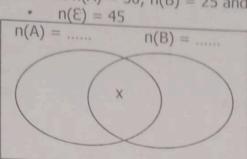
- 8. Simplify: 3e 6g +5e 5g
- 9. Write 68,045 in scientific notation.
- 10. The volume of a rectangular prism is 120 cm³. If it is 5 cm long and 6 cm high, what is its breadth?
- 11. The ratio of boys to girls in a class of 80 pupils is 5:3. Find the number of boys in the class.
- 12. Solve the equation: 5x (2 + 3x) = 0
- 13. The price of an article was reduced by 30% to sh. 98,000. What was the price of the article before the reduction?
- 14. Prime factorise 24 and give the answer in power form.
- 15. A car uses 6 litres of petrol to cover 30 km. How far does the car go with 11 litres of petrol?

16.	Abdul scored the following marks in a test: 70, 65, 60, 50, 60, 65, 60, 75, and 80. Work out the median mark.
17.	Using a year chara pencil a wiley and a rain of semanages only construct an analy
17.	Using a very sharp pencil, a ruler and a pair of compasses only, construct an angle of 105°
18.	Express 6.85 metric tonnes in kilogrammes.
19.	A seminar began at 10:30 am and ran up to 1:30 pm. How long did the seminar
	last?
20.	Calculate the simple interest on sh. 800,000 for 2 years at 10% per annum.

21.

SECTION B: 60 MARKS

Given that n(A) = 30, n(B) = 25 and n(AUB) = 45



Complete the venn diagram. (2 marks)

(b) Find:

(i) n(A∩B)

(1 mark)

(ii) n(A - B)

(1 mark)

(iii) n(B - A)

(1 mark)

22. (a) Use the digits 4, 5, 6 and form possible three-digit numerals. (3 marks)

Find the sum of the largest and smallest number formed. (b)

(2 marks)

Express 0.272727 ... as a common fraction. 23. (a)

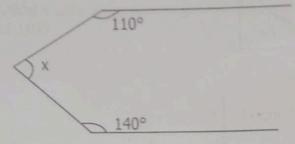
(2 marks)

(b) Work out $\frac{2.8 \times 3.5}{0.4 \times 0.7}$

(2 marks)

24. (a) Find the value of x in the figure below.

(2 marks)



(b) 3x and 2x are supplementary angles. Find the value of x and the sizes of the angles. (4 marks)

- 25. (a) A father is four times as old as his son. If their total age is 65 years, how old is the father? (2 marks)
 - (b) Solve and write the solution set for the inequality $3(a-1)-5(a-1) \ge 4$ (3 marks)
- 26. The table below shows how the pupils scored in the end of term examinations.

The table below	SHOWS HO	MA OLC FIG	DIIS SCOIL	a mi are c	nice on con	ill Committee
Marks scored	20	30	50	60	70	80
No. of Pupils	3	1	2	1	2	2

(a) How many pupils did the test?

(1 mark)

(b) What was the mean mark?

(2 marks)

(c) What was the median mark?

(2 marks)

27. (a) Using a ruler, a very sharp pencil, and a pair of compasses only, construct triangle ABC where AB = 8 cm, angel $BAC = 90^{\circ}$ and angle $BCA = 60^{\circ}$ (5 marks)

(b) Measure line AC

(1 mark)

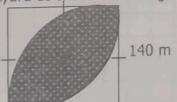
- 28. Angume, Bachu and Cheptegei shared a certain sum of money in the ratio of 2: 3: 5 respectively. If Cheptegei got sh. 150,000 more than Angume,
 - (a) how much money did each get?

(4 marks)

(b) How much money did the share altogether?

(2 marks)

29. A square courtyard was 14 metres by 14 metres. A flowerbed is shown at the courtyard as shown in the figure.



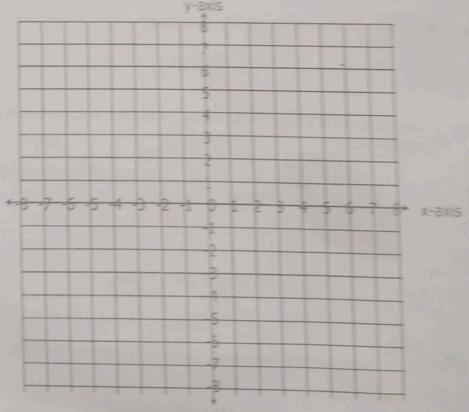
Find:

- (a) the area of the courtyard. (2 marks)
- (b) the area of the flowerbed. (Shaded part) ($Take \pi = \frac{22}{7}$) (5 marks)

A car manufactured in England was valued at 1,350 Pound Sterling in England. Transporting the car from England to Kampala, Uganda together with customs duty accounted for 50% of the factory price. What would be the total expenses on the car at Kampala? (Given that 1 Pound Sterling = 4,300 Ugandan Shillings) (4 marks)

A taxi driver drove at 60 km/h for 3 hours and drove back at 50 km/h for 2 hours. Calculate his average speed for the whole journey. (3 marks)

32. Plot the points P(-4, -2), Q(-4, 4) and R(3, -2) on the grid. Join P to Q, Q to R and R to P to form a geometric figure. (4 marks)



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