

MID-TERM TWO EXAMINATIONS

2023

MATHEMATICS (Set Two) Time Allowed: 2 Hours 30 Minutes

Index No.									
Candidate's I	Name	•••••					•••••		
Candidate's	Signature			• • • • • • •					
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Read the fo	llowing inst	ructions	care	fully:					
Read the following instructions carefully: 1. The paper has two sections: A and B. Section A has 20 questions and section B has 12 questions.			FOR EXAMINERS' USE ONLY						
The paper has 12 pages altogether.		Qn. I	No.	MARKS	EXRS' NO				
	2. All working for both sections A and B must be shown in the spaces provided		own	1-5					
iii iiie spaces piv	provided	-	6-10						
3. All working ball-point pe	nust be done using a blue or black in ink or fountain pen. Any work done in than graphs and diagrams will not be	11-15							
pencils other		16-20							
тагкеа.				21-22					
4. No calculate	ors are allowe	d in the e	exami	ination	room.	23-24			
5. Unnecessary alterations/changes of work may lead		lead	25-26						
to loss of marks	1e	27-28							
6. Any handwlead to los	riting that cannot easily be read may sof marks.		29-30						
			31-32						
	anything in bo niners' Use On		ated:			TOTAL	•	-	

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SECTION A: (40 marks)

Answer **all** the questions in this section Questions 1 to 20 carry two marks each

1. Multiply: 22 x 4

2. Expand 7538 using powers of ten.

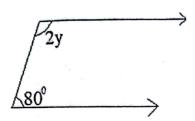
3. Find the next number in the sequence.

4. If set P has 64 subsets . How many elements are in set P?

5. Simplify: 3 - 9

6. Change **0.25** to a fraction in its simplest form.

7. Find the value of y in the diagram below;



8. A farmer harvested his mangoes at 4:57pm. Express this time in a 24-hour clock system.

9. Simplify: $\frac{2}{3} + \frac{1}{4}$

10. Write 149 in Roman numerals.

11. Four chapatis cost sh.2,400. Find the cost of 7 similar chapatis.

12. Solve 15 = 7 + 2k

13. Today is Tuesday, what day of the week was it 31 days ago?

14. If represents 55 books, how many books are represented by ??

15. The price of a rubber was increased by 10% by the seller, due to the low demand he decreased the price by 20%, many customers turned up to buy and he again raised the price by 50%. If the new price is sh.594, find the original price of the rubber.

16. Change 104_{six} to base ten .

17. Using a ruler, a pencil and a pair of compasses only, construct an angle of 45⁰ in the space below.

18. The place value of 7 in a number is thousands. Find the value of 7.

19. Find the L.C.M of 10 and 12

20. Factorise completely: $16ab^2 - 20a^3b$

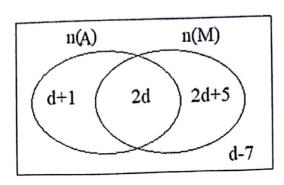
SECTION B: 60 MARKS

Answer all questions in this section

Marks for each question are indicated in brackets

21. a) Write 40,295 in words.	(02 marks)
b) Find the sum of the largest and smallest 4-digi	t numerals formed using 5,7,2 and 8. (03 marks)
22. a) Using a ruler, a pencil and a pair of compassion AB =6cm, angle ABC =600 and angle BA	sses only, construct triangle ABC where AC=45 ⁰ . (04 marks)
b) Measure line AC.	(01 mark)

23. The Venn diagram below shows the number of pupils who support Arsenal (A), Machester United (M) and other clubs. Use it to answer the questions that follow;



a) If 53 pupils support Manchester United, find the value of d. (03 marks)

b) How many pupils support Arsenal?

(02 marks)

7

24. In a class, $\frac{1}{3}$ of the pupils like chips, $\frac{1}{4}$ of the remainder like beef. The rest of the pupils like chicken. If those who like chicken are 100, find the total number of pupils in the class.

(05marks)

25. a) Work out:
$$\frac{0.24 \times 0.15}{0.8 \times 0.5}$$

(03 marks)

b) Simplify:
$$\frac{1}{4} + \frac{1}{2} - \frac{1}{3}$$

(02 marks)

26. Below is Kimuli's shopping bill .

a) Complete the table below.

(04 marks)

Items	Unit cost	Amount
4 kg of beans	sh.2,500	Sh
2 kg of rice	Sh	Sh.7,000
kg of salt	Sh.2,000 per kg	sh.1,000
Total Expenditure		Sh

b) Find his change if the he went with a twenty thousand shilling note. (01 mark)

27. The sum of three consecutive odd numbers is 57.

a) Find the numbers

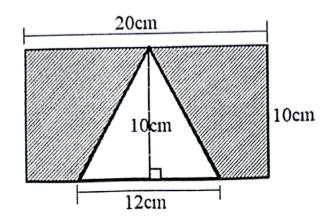
(04 marks)

b) Write the second number in words.

(01 mark)

9

28. Study the figure below and answer the questions that follow;



- a) Find the area of the triangle in the figure above.
- (03 marks)

b) Find the area of the shaded part.

(03 marks)

29. The table below shows marks got by some pupils in a test.

Marks	70	95	100	80
Number of pupils	3	4	1	2

a) How many pupils did the test?

(02 marks)

b) Calculate the average mark.

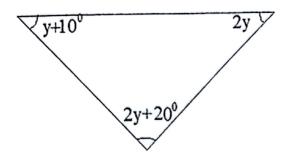
(03 marks)

30. a) Find the supplement of 69° .

(02marks)

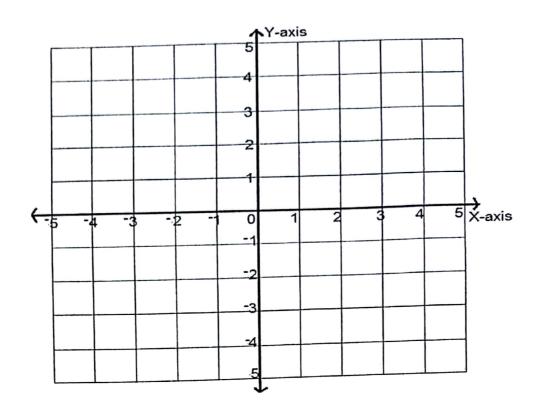
b) Find the value of y in degrees.

(03marks)



31. Three pupils Abel, Ben and Chris shared 1800 books such that Abel gets twice as much as Chris. Ben got 200 more books than Chris. How many books did each get?
(03 marks)

32. a) Plot A(4, 3), B(4, -2), C(-3, -2) and D(-3, 3) on the grid graph below (04 marks)



b) Join A to B, B to C, C to D and D to A.

(01 mark)

c) Find the area of the figure formed

(01 mark)

END