MBALE DISTRICT ACADEMIC BOARD

PRIMARY LEAVING MOCK EXAMINATIONS

2024

MATHEMATICS

Time Allowed: 2 Hours 30 Mi	I - I No
Random No.	Personal No.
e:	
	e:

READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

- 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.
- 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"

PAGES	MARKS	INITIALS
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

Please turn over

MBALE DISTRICT ACADEMIC BOARD -2024



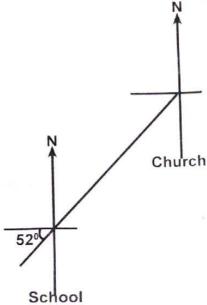
SECTION A: 40 MARKS

Questions 1 to 20 carry two marks each

- 1. If represents 12 trees. work out the number of trees in
- 2. Write 627,949 in words.
- 3. Express 625 in standard form.
- Find the next number in the squence: 729, 243, 81, 27, _____
- 5. Express $2\frac{1}{2}\%$ as a decimal number.

6. Given that set M = {prime numbers less than 10} Find the number of subsets of set M.

11. The diagram below shows the two places at different bearings. Study and use it to work out the bearing of the school from the church.



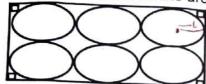
12. Solve the inequality 3(2 - k) < 18.

13. Change 12:45am to 24 hour time.

14. If today is Monday, which day of the week will it be 27 days from now?

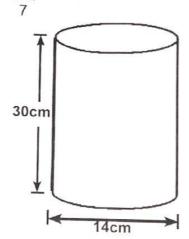
15. Find the number whose expanded form becomes: $(2x10^3) + (7x10^2) + (9x10^{-1}) + (5x10^0)$

16. The diagram below shows six circular cut outs that form a rectangle below. Use it to work out the area of the rectangle.



17. Solve for P in $2^{p+1} \times 2^3 = 2^5$

18. The figure below is a cylinder. Use it to find the volume in cubic centimetres (use $\pi = 22$)



19. Work out the square root of <u>64</u>.

20. If set $M = \{2, 4, 5, 6, 7, 8 \text{ and set } P = \{1, 3, 5, 7, 9\}$. Find n(P-M).

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

21. a) With the help of a ruler, a pencil and a pair of compasses only. construct a triangle PQR such that angle PQR is 60°, angle PRQ is (05 marks) 75° and line PQ is 8cm.

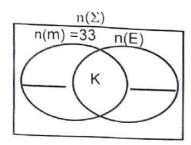
- b) Construct a perpendicular line from R to meet line PQ at 0. (01 mark)
- 22. Nambi went shopping with forty thousand shillings as shown in the table below:
 - a) Complete the table if her change was sh. 2,000.

(05 marks)

Items	Unit cost	Amount
2kg of sugar	sh. 5,200 per kg	sh
3kg of rice	shper	sh. 18,000
litres of	sh. 2,400 per litre	sh.
Bill		sh.

- 23.In a P.7 candidate class, some candidates like Mathematics (M) and English (E), 33 candidates like Mathematics, 18 candidates like only English, K candidates like both subjects while 2k candidates like only Mathematics.
 - a) Complete the venn diagram below using the information above.

(02 marks)



b) Find the number of candidates who like English.

(03 marks)

24. a) Express 2 as recurring decimals.

(02 marks)

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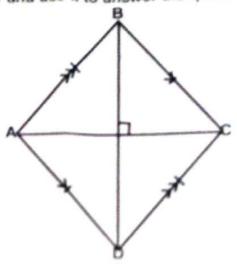
b) Work out: <u>4.8</u> x <u>8.1</u>

0.12 0.03

(03 marks)

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AC is 10 metres. Study and use it to answer the questions that follow.



a) Find the diagonal BD.

(03 marks)

b) Work out its area.

(02 marks)



- 26.Richard has a radio which uses 12 volt batteries. Each battery has 1.5 volts.
 - a) Work out the number of batteries needed to be used in his radio.

(03 marks)



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b) If each pair of batteries	
needed for his radio.	sh. 2,000; Find the amount of money
	(02 marks)

27. a) In an interview of 25 questions, 4 marks were awarded for each correct answer, 1 mark was deducted for each wrong answer.
If Betty passed 18 questions only, find her score.
(03 marks)

b) Given that Paul scored 50 marks, how many did he fail? (02 marks)

28. 2	a) Solve	the equation:	12	= 72
				3p

are old.	After now
b) A school bursar is 32 years old, his son is 14 years old. many years will bursar be twice the age of his son?	(03 marks)
many years will bursal be twice the	

29	A taxi driver left Kampala at 11:40 a.m to Iganga dr	riving	at 60) kilometres
	per hour. The driver reached Iganga at 3:10p.m.			(03 made

a) Find the time taken by the driver to reach Iganga.

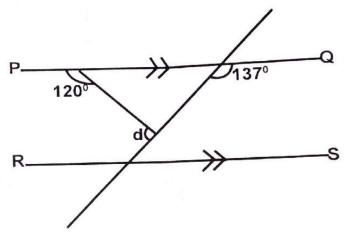
(03 marks)

b) Calculate the distance between Kampala and Iganga.

(02 marks)

30. a) A regular polygon has 14 right angles. How many sides has the (02 marks) polygon?

b) In the diagram below, line PQ is parallel to line RS. Use it to find (03 marks) angle X.



31.a) Given that y05 $_{six}$ = 1301 $_{four}$. Find the value of y.



(03 marks)

b) Change 101_{two} to a decimal base.

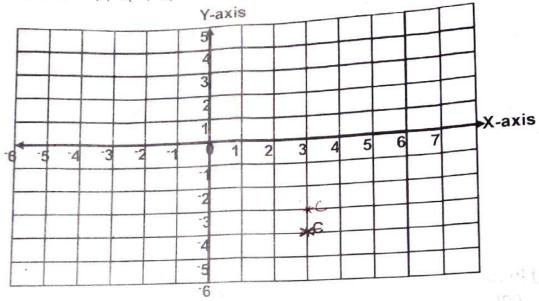
(02 marks)

32. a) Plot the points on the graph below.

(02 marks)

i) A (-3, 3)

(ii) B(+3, +3)



b) Give the co-ordinates for point C.

(01mark)

c) Locate point D such that when point A joins point B, point C, point D and point A will form a square of 36 square units. (02 marks)



