MBARARA DISTRICT ACADEMIC BOARD PRIMARY LEAVING MOCK, 2023

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Random No.	Personal No.

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Candidate's Name:	***************************************
Candidate's Signat	ure:
District ID No:	

Read the following instructions carefully:

- Do not write your school or district name anywhere on this paper.
- This paper has two sections: A and B. Section A has 20 questions and Section B has 12 questions. The paper has 12 printed pages altogether.
- Answer all questions. All the working for both sections A and B must be shown in the spaces provided.
- All working must be done using a blue or black ball point pen or ink. Any work done in pencil other than graphs and diagrams will not be marked.
- No calculators are allowed in examination room.
- 6. Unnecessary **changes** in your work and hand writing that cannot easily be read may lead to **loss** of marks.
- 7. Do not fill anything in the table indicated: "For Examiners' Use Only" and boxes inside the question paper.

FO	R EXAMINE	
Qn. No.	Marks	EXR'S NO
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

@ 2022 file and District Academic Board

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SECTION A: 40 MARKS.

Answer all questions in this section.

Questions 1 to 20 carry two marks each.

1. Work out: 3 0 X 3

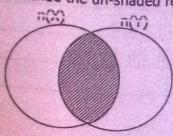
2. Simplify: 6t-2(4-t)

The LCM of two numbers is 72 and their GCF is 6. If one of the numbers is 18,

4. Correct 95.752 to one decimal place.

Days of the week	Number of patients recorded
Tuesday	HH-HH-HH-HI-II
Wednesday	
Thursday	
	JEAN JEAN
	Cart
	VOA.
	The second construct a perpendicular line
bisector from X to meet YZ a	pair of compasses only, construct a perpendicular line
disector from A to meet 12 a	\
	Y
	A street with a set of X or X or X or X of the record of
Z	
	3 - be obtained from 2.9 litros of
	measuring 280cm ³ can be obtained from 2.8 litres of
tea?	
A land mater num	bered from AX04800 to AX04889. If each note is w
Annet has bank notes num	bered from AX04800 to AX04889. If each note is worth money does she have?
Annet has bank notes num Shs. 1000 in value, how mu	bered from AX04800 to AX04889. If each note is wouch money does she have?
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Annet has bank notes num Shs. 1000 in value, how mu	bered from AX04800 to AX04889. If each note is worth money does she have?

Describe the un-shaded region in the Venn diagram below.



10. Convert 0.3636.....to a rational number.

11. Given that X = 2y - 1, complete the table below.

X	1	3	7	
Y	1	2		0

12. Write the expanded numeral below in words. (3 + 400 + 90000)

13. Express the afternoon time shown on the clock face below in a 24-hour clock system.

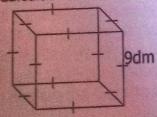


HEADTE MODE

14. What amount of water when decreased by 10% becomes 360 litres?

15. The average weight of three pupils is 16kg. If the heavier pupil weighs 18kg, workout the total weight of the other two pupils.

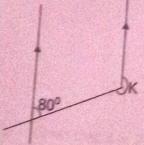
16. Calculate the total surface area of the cube below.



Turn Over

17. The sum of p, p + 2 and p + 4 consecutive even numbers is 36. Find the value of p.

18. Work out the size of angle marked K in degrees.



19. If today is Wednesday, what day of the week will it be 40 days from today?

20. Given that $m = \frac{1}{4}$ and $p = \frac{3}{8}$ Solve for the value of \underline{m}

SECTION B: 60 MARKS. Answer all questions in this section. Marks for each question are indicated in the brackets. The figure below shows a cylindrical plastic milk tank. 21. How many litres of milk can the tank hold when full? (2 marks) 100cm If the tank is cut to form a rectangular plastic sheet, find (c) Work out the area of the plastic the length of the sheet. sheet formed. (2 marks) (2 marks) The table below shows the exchange rates at the forex bureau. S/No CURRENCY BUYING 1 US Dollar (\$) Ug Shs. 3660 1 Kenya Shilling (K Sh.) (ii) Ug Shs. 35 Convert 300 US Dollars to Uganda Shillings. (2 marks)

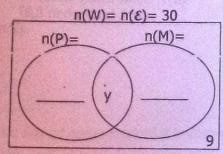
If a trader had various amount of money in currencies as; (b)

100 Kenya Shillings (K. Shs.) (i)

50 US Dollars (\$) (ii)

A note of twenty thousand Uganda Shillings. (iii) Calculate the amount of money he had in Uganda Shillings.

- 23. In a class of 30 candidates, all candidates drink water (W), 11 eat posho (P), 20 eat matooke (M) and y candidates take all the three while 9 candidates drink water only.
 - (a) Represent the above information on the Venn diagram below. (2 marks)



- (b) Find the value of y.

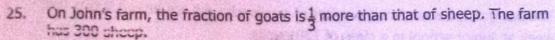
 (2 marks)
- (c) Work out the probability of picking a candidate who doesn't eat posho.

 (1 mark)

24. (a) Convert 9_{ten} to binary base. (b) Solve for a: $2^{2a} \times 2^3 = 32$. (2 marks)

(c) Express 4030 in standard form.

(2 marks)



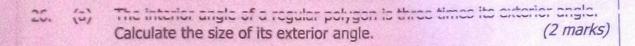
(a) Find the fraction of the sheep on the farm.

(2 marks)

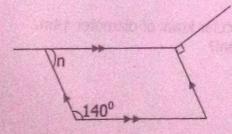
HEADTE NODER

(b) Work out the total number of animals on the farm.

(2 marks)

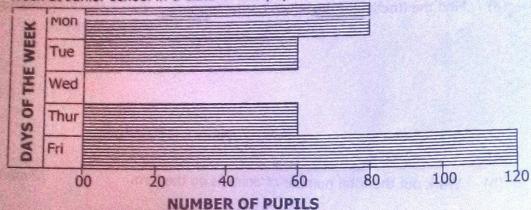


(b) In the figure below, solve for the size of angle n in degrees. (2 marks)



Turn Over

27. The bar-graph below shows number of pupils who did not attend sports last week at Junior school in a class of 120 pupils.



- (a) Which day was most likely to be a public holiday? (1 mark)
- (b) Work out the median of pupils who did not attend sports that week.

(2 marks)

- (c) Calculate the total number of pupils who did not attend sports that week.

 (2 marks)
- 28. A herdsman constructed a circular kraal of diameter 14m.
 - (a) Find the area of the kraal?

(2 marks)

(b) If a kraal was fenced with poles planted 2 metres apart at a cost of Shs. 3000 per pole, how much did he spend? (4 marks)

29.	(a)	Work out:	2.2 + 1.04
			1.8

(2 marks)

WATE.

(b) A teacher deposited Shs. 40,000 on her savings bank account for $\frac{1}{2}$ a year at a simple interest rate of 11% per annum.

Calculate the amount of money she had on her account after the period altogether?

(3 marks)

30. A tourist left home and travelled 60km West wards to a National Park. She then turned on a bearing of 225° and travelled to the nearest town a distance of 50km.

(a) Using a scale of 1cm to represent 10km, construct an accurate diagram to show the tourist's journey.

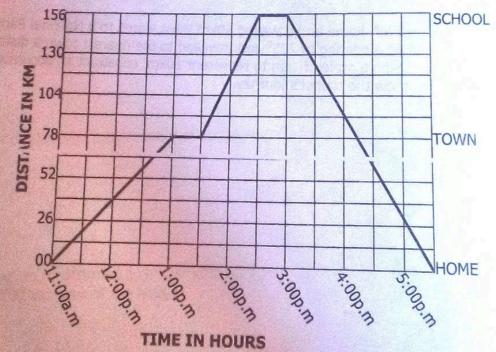
(4 marks)

(h) Find the shortest distance from town to his home in Km.

(1 mark)

Turn over

- (b) Abdul is 8 years older than his wife. If their total age is 88 years, how old is the wife? (2 marks)
- 32. The travel graph below shows a parent's journey from home via town to school and then back home.



- (a) At what time did a parent arrive back home? (1 mark)
- (b) For how long did he rest in the whole journey? (1 mark)
- (c) Calculate his average speed for the whole journey.

(2 marks)