MAYUGE DISTRICT EXAMINATIONS BOARD PRIMARY LEAVING MOCK, 2023

MATHEMATICS

Time Allowed: 2 hours 30 minutes

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Index No.						
Candidate's	Name: .			 		
Candidate's	Signatur	e:		 		
District ID	No:					

Read the following instructions carefully:

- 1. Do not write your school or district name anywhere on this paper.
- 2. This paper has two sections: A and B.
 Section A has 20 questions and Section B
 has 12 questions. The paper has 8
 printed pages altogether.
- 3. Answer all questions. All the working for both sections A and B must be shown in the spaces provided.
- 4. 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.
- 5. No calculators are allowed in the examination room.
- 6. Unnecessary **changes** in your work and handwriting 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.

FOR EXAMINERS' USE ONLY						
Qn. No.	Marks	EXR'S NO.				
1 - 5						
6 - 10						
11 - 15						
16 - 20						
21 - 22						
23 - 24	i est en					
25 - 26	679 6827					
27 - 28						
29 - 30	3					
31 - 32		10 22 24h				
TOTAL		1-300				

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Turn Over



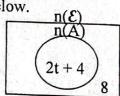
SECTION A: 40 MARKS.

Answer all questions in this section.

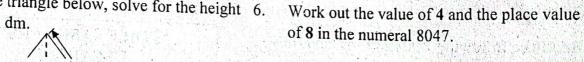
Questions 1 to 20 carry two marks each.

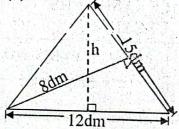
1. Add: 23 + 54

- 2. Subtract: 2r = 3 from 2 = r
- If t = 8, find $n(\mathcal{E})$ from the Venn diagram 4. below.
 - Calculate the 18th triangular number.



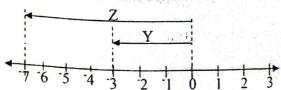
In the triangle below, solve for the height 6. 5. (h) in dm.



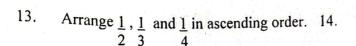


- Given that / 7. stands for a half dozen 8. Simplify: 1.82 + 0.18of pens. Draw pens that represent $2\frac{1}{2}$ dozen of pens.
- How many coins of Shs. 1000 are in the note of money below?
- Solve for base α : $24\alpha = 14_{\text{ten}}$ 10.

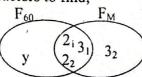
11. Write the subtraction statement shown 12. on the number line below.



The bearing of a town from a village is 098°. Work out the bearing of village from the town.



- Solve the inequality: $2n 3 \le 7$
- 15. Use the Venn diagram below of prime 16. factors to find;



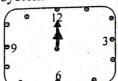
6. Express "9 tens + 9 ones" in Roman numerals.

- (i) Value of m
- (ii) GCF of M and 60

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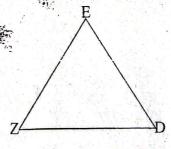
18.

17. Write the morning time shown on the clock face below in a 24-hour clock system.



Work out the average of p, 2p + 3, 12 and p + 1

- 19. How many packets of 300 grammes can 20. be got from 3.3 kilogrammes of posho?
- Using a ruler, a pencil and a pair of compasses only bisect angle ZED below.

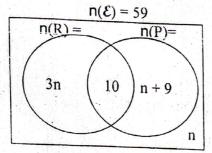


SECTION B: 60 MARKS

Answer all questions in this section. Marks for each question are indicated in the brackets.

(a)

The Venn diagram below shows number of candidates who eat rice (R) and posho (P). 21. (2 marks) Find the value of n.



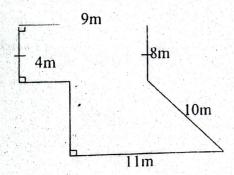
- If a candidate is picked at random to collect the textbooks. What is the chance of (b) picking a candidate who doesn't eat rice? (2 marks) well
- A county in Uganda has 30,000 people. Of these people, $\frac{1}{3}$ are females and $\frac{1}{2}$ of the 22. females are girls.
 - If $\frac{1}{4}$ of males among the population are boys, work out the ratio of boys to girls. (a) (4 marks)

How many more males than females are in the county? (b)

(2 marks)

S/NO	ITEM	shopping bill table below correctly. (5 marres)					
	The same of the sa	QUANTITY	UNIT COST	AMOUNT			
(i)	Sugar	a kg	Shsper kg	Shs. 6000			
(ii)	Milk	500ml	Shs. 2000 a litre	Shs			
(iii)	Salt	gms	Shs. 2000@kg	Shs. 1000			
(iv)	Rice	2½ Kg	Shs. 5000per kg	Shs			
(v)	TOTAL EXI	Shs					

24. The figure below shows Tom's coffee garden.



(a) Calculate the area of the coffee garden. (4 marks)

(b) Find the total distance round the coffee garden above.

(2 marks)

Turn Over

- One hundred one poles were fixed in a straight line a long the road at an interval of 10 metres. How long is the road?
 - (b) Express 307 x 10⁻² as a single numeral. (2 marks)
- (c) Work out using the abacus.

 (2 marks)

 T O T O H T X = X = X = X
- 26. (a) The interior angle of a regular polygon is four times its exterior angle. Find the size of each exterior angle. (2 marks)
 - (b) Solve for the size of angle k in degrees.

(2 marks)

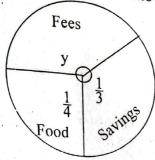
- 27. Abdul bought a 20 litre Jerrycan of liquid soap at Shs. 30,000. He filled the soap into half litre plastic bottles and sold off the soap making a profit of 20%.
 - (a) How many half litre bottles did he fill? (2 marks)
- (b) Calculate his total selling price of the soap.

(3 marks)

(a) Solve for a: $\frac{1}{3}a - 6 = 6$. (b) If t = -11, find the value of $4t^2$. (2 marks)

(2 marks)

29. The pie-chart below shows how a parent spends his monthly income.



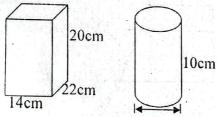
What fraction of money is spent on fees? (a)

(2 marks)

(b) Express the amount of money he (c) saves in degrees. (1 mark)

If he spent Shs. 85,000 on food, calculate his total monthly income. (2 marks)

30. A rectangular tank and a cylindrical tank below hold the same amount of milk when full.

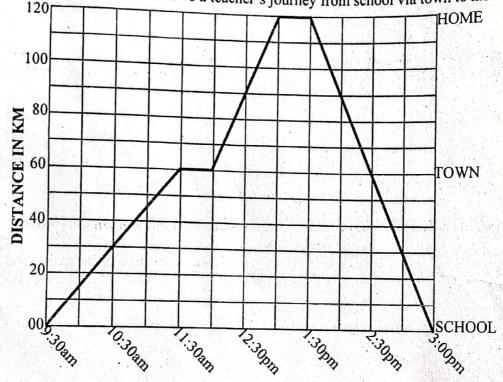


Calculate the radius of the cylindrical (a) tank. (3 marks)

How many littes of milk does the cylindrical tank hold when full? (b)

(3 marks)

32. The travel graph below shows a teacher's journey from school via town to his home.



TIME IN HOURS

(b)

(d)

- (a) At what time did the teacher arrive home? (1 mark)
- How far is the teacher's home from town? (1 mark)
- (c) For how long did he rest in the whole journey. (1 mark)
- Calculate his average speed for the whole journey. (2 marks)

END