### MASINDI DISTRICT LOCAL GOVERNMENT PRIMARY LEAVING MOCK, 2023 MATHEMATICS

Time Allowed: 2 hours 30 minutes

Personal No.

Candidate's	Name:	***************************************		
Candidate's	Signature:	**************	 *******************************	
District ID N	10			

### Read the following instructions carefully:

Index No.

 Do not write your school or district name anywhere on this paper.

Random No.

- 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.
- 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 the examination room.
- Unnecessary changes in your work and handwriting that cannot easily be read may lead to loss of marks.
  - 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		Section 1				
6 - 10						
11 - 15						
16 - 20						
21 - 22						
23 - 24						
25 - 26						
27 - 28						
29 - 30						
31 - 32	-	-				
TOTAL						

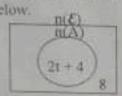
#### SECTION A: 40 MARKS.

## Answer all questions in this section.

Questions 1 to 20 carry two marks each.

Add: 23 + 54

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



In the triangle below, solve for the height 6. Work out the value of 4 and the place van (h) in dm.



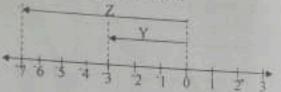
of 8 in the numeral 8047.

- stands for a half dozen Given that of pens. Draw pens that represent 2 dozen of pens.
- Simplify: 1.82 + 0.18
- How many coins of Shs. 1000 are in the note of money below?



Solve for base at 24 a = 14

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



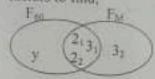
The bearing of a town from a village is 098°. Work out the bearing of village from the town.

Arrange 1.1 and 1 in ascending order. 14.

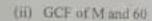
Solve the inequality:  $2n - 3 \le 7$ 

12

 Use the Venn diagram below of prime 16. factors to find;

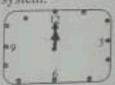


(i) Value of m



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

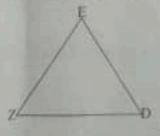
 Write the morning time shown on the clock face below in a 24-hour clock system.



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.



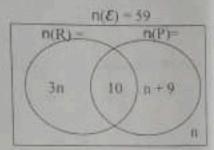
Turn over

#### SECTION B: 60 MARKS

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

COY

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



If a candidate is picked at random to collect the textbooks. What is the chance of (b) (2 marks) picking a candidate who doesn't eat rice?

A county in Uganda has 30,000 people. Of these people, \(\frac{1}{3}\) are females and \(\frac{1}{3}\) of the females are girls.

If  $\frac{1}{4}$  of males among the population are boys, work out the ratio of boys to girls

64 marks

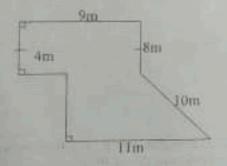
How many more males than females are in the county? (b)

(2 markt)

# Study and complete Andrew's shopping bill to

SINO	ITEM		CVI A SPECIAL CONTROL OF THE CONTROL		
- 100		QUANTITY	UNIT COST	AMOUNT	
	Sugar	akg	Shsper kg	A STATE OF THE PARTY OF THE PAR	
(ii)	Milk	500ml	1999		
(iii)	Salt	- water	Slis. 2000 a litre	Shs	
B0381	3000	gms		Shs. 1000	
(iv)	Rice	21 Kg			
(v)	TOTAL EVI			Shs	
v) TOTAL EXPENDITURE				Sha	

24 The figure below shows Tom's coffee garden



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

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

(2 marks)

One handred one poles were fixed in a straight line a long the road at an interval (a) (2 marks) of 10 metres. How long is the road?

- Express 307 x 10<sup>-1</sup> as a single numeral. (Z.marka)
- (c) Work out using the abacus. ( MAINES

- The interior angle of a regular polygon is four times its exterior angle. 36. (0) (2 marks) Find the size of each exterior angle.
  - Solve for the skip of angle's in decrees. chi.

(2 marks)

- About 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%; How many half litre bottles did (b) Calculate his total selling price
  - Laz (2 minks)

he fill?

of the soap

28.

$$\frac{1}{3}a - 6 = 6,$$
(2 marks)

(b) If 
$$t = -11$$
, find the value of  $4t^2$ 

(2 marks)

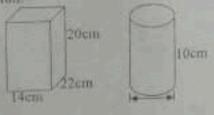
The pie-chart below shows how a parent spends his monthly income.



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

(b) Express the amount of money he (c.) 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.

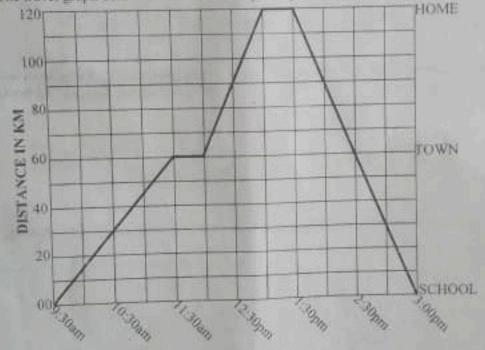


(a) Calculate the radius of the cylindrical tank (3 marks)

(b) How many times of milk does the cylindrical tank hold when full? (3 marks)

Then Over

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



### TIME IN HOURS

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

