MEVID EXAMINATIONS BOARD

PRIMARY LEAVING EXAMINATIONS - PRE MOCK

SET THREE, 2023

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.	**Random No.**							**Personal No.**		

Candidate's Name: .....

Candidate's Signature: .....

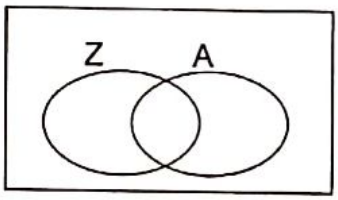
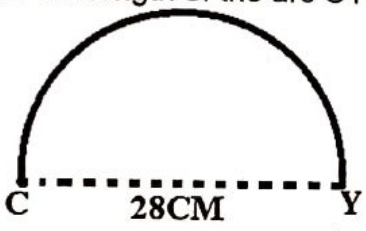
District: .....

READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

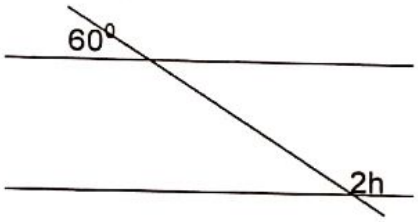
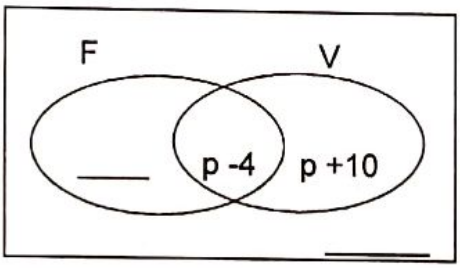
1. Do not write your **school** of **district** name anywhere on this paper.
2. This paper has two sections: **A** and **B**. Section **A** has **20** questions and section **B** has **12** questions.
3. Answer **all** questions. **All** answers to both sections **A** and **B** must be written in the spaces provided.
4. All answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
5. **No calculators** are allowed in the examination room
6. Unnecessary **changes** in your work and handwriting that cannot be easily read may lead to **loss of marks.**
6. Do not fill anything in the table indicated: **"for examiner's use only"** and boxes inside the question paper.

FOR EXAMINER'S USE ONLY

Qn. No	MARK	EXR'S NO.
Page 2		
Page 3		
Page 4		
Page 5		
Page 6		
Page 7		
Page 8		
TOTAL		

	SECTION A (40 MARKS)		
1	Multiply: 3 x 4	2	Workout: $\frac{1}{3} - \frac{1}{5}$
3	Without dividing show that 42 is exactly divisible by 6	4	On the venn diagram below, shade (AnZ) 
5	Find the mean of p, 14 and 2p+ 1	6	Workout $\bar{2} - \bar{6}$
7	Subtract m -2 from 3m – 4		
8	Calculate the length of the arc CY take $(\pi = \frac{22}{7})$ 		
9	James bought a sack of charcoal at sh.50,000 and sold it making a profit of shs.10,000. Calculate his percentage profit,		

10	Using a ruler, pencil and a pair of compasses only, drop a perpendicular line from Q to meet MP at point R Q M ——————————— P		
11	Write XLIV in Hindu Arabic numerals	12	Convert 8:45pm to a 24 hour clock system
13	8 girls can sweep a classroom in 5minutes, how many more minutes will 4 girls require to do the same piece of work.	14	Write the next two numbers in the sequence 2,3,5,7, _____, _____
15	Given that m=3, n= -2 and z = 4, find the value of mn – nz	16	Convert 15_{ten} to binary base
17	Prime factorise 36 and write your answer in set notation form	18	A shopkeeper bought 12.5 litres of cooking oil and packed it using small containers of 250ml each. How many containers did she get?

19	On the figure below, find the value of h. 
20	Find the range of $^{-}2$, $^{-}5$, $^{-}6$, $^{-}7$ and $^{-}4$
	SECTION B (60MARKS)
21	In a class, 30 pupils belong to the Football (F) club only, (p – 4) pupils belong to both Football and Volley ball (V) clubs, (p -8) do not belong to any of the two clubs while (p+10) pupils belong only to the volley ball club
a)	Complete the venn diagram below using the above information **(2marks)** Σ 
b)	Given that the number of pupils that belong to volley ball only is twice those who don't play any of the two games, find the value of p. **(2marks)**
c)	How many pupils belong to the football club? **(2marks)**
22	Below is the prime factorisation of N and B FN = $\{2_1, 3_1, 3_2\}$ FB = $2^2 \times 3^2$

a) Workout the values of N and B **(2 marks)**

b) Find the GCF of N and B **(2marks)**

23 The table below shows the journey made by Tausi bus from Mbarara to Kampala through Masaka and Mpigi. Study it carefully and answer the questions about it

Town	Arrival	Departure
Mbarara	_____	8:00am
Masaka	10:00am	10:25am
Mpigi	11:25am	11:45am
Kampala	12:50pm	_____

a) At what time did the bus leave Masaka? **(1mark)**

b) How long did the bus take resting at Mpigi? **(2 marks)**

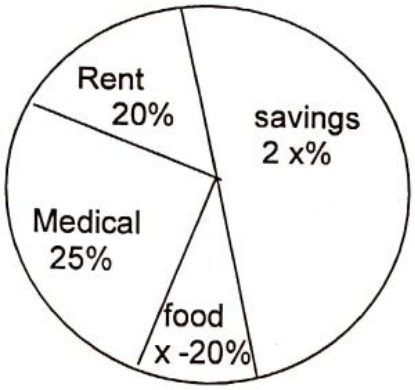
c) How long did the bus take to travel from Mbarara to Kampala? **(2 marks)**

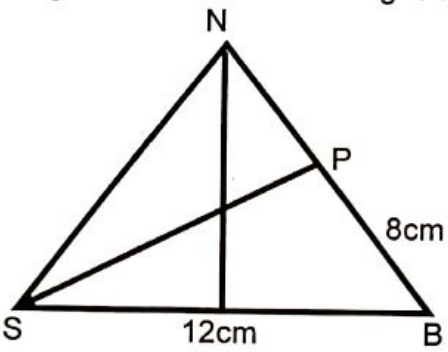
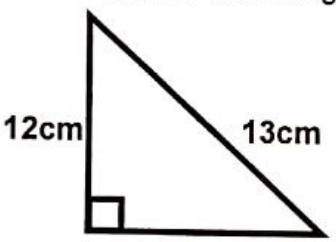
24 The interior angle of a regular polygon is 60^0 more than its exterior.

a) Find the size of each interior angle of this regular polygon. (3marks)

b) Name the polygon **(2 marks)**

25 During a P.7 thanksgiving party, 3 dishes Rice, Matooke and Millet were served to the candidates, $^2/_5$ of the candidates ate Rice, ¼ of the remainder ate matooke and the rest ate millet.

	How many candidates are in the whole class if 54 ate millet? **(5marks)**
26	The pie chart below shows how Jamil spends his monthly salary. Study it carefully and answer the questions about it. 
a)	Find the value of x **(2marks)**
b)	If he spends shs.270,000 more on savings than on rent, find his monthly salary? **(3marks)**
27	A mother is 30 years older than her daughter. In 5 years time, their total age will be 70 years. a) How old is the mother now. **(4marks)** b) How old will the daughter be in 5 years time **(1 mark)**

28a)	NBS is a triangle, use it to find the height SP **(2marks)** 	
b)	Calculate the area of the triangle **below** **(3marks)** 	
29.	Three village Farmers Kato, Wasswa and Okot shared PDM money in the ratio of 4:2:7 respectively. Given that Okot shared sh. 250,000 more than Wasswa, how much money was given to the three farmers altogether (3 marks)	
b)	How much money did Kato receive? (2marks)	
30.	Using a ruler , a pencil and a pair of compasses only, construct a rhombus NTVU where NV=8cm and TU is 6cm. **(4 marks)**	

b)	Calculate the area of the rhombus	**(2marks)**
31. a)	The area of a square game board is $100cm^2$. Calculate it's perimeter.	**(3marks)**
b)	75 poles were planted along one side of the road covering a distance of 148 metres. At what intervals were the poles planted?	**(2marks)**
32.a)	A Christian missionaries was born in 17BC and died in 64AD. How old was he when he died?	**(2marks)**
b)	Write the solution set for $2p \leq 6$	**(2marks)**