HORMISDALLEN SCHOOL - KYEBANDO
PRE-PLE SET 4 EXAMINATION, 2023
PRIMARY SEVEN MATH

Duration: 2 Hours 15 Minutes

NAME: _____ **STREAM:** _____

INDEX NO | | | | | | | | | | **EMIS NO.** | | | | | | |

SECTION A (40 MARKS)

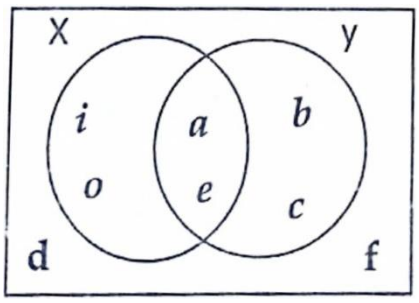
Questions 1 to 20 carry two marks each

1. Work out: 463 + 35

2. Solve: $2(x - 4) = 12$

3. What number has been expanded to give;
   $(4 \times 10^3) + (6 \times 10^1) + (8 \times 10^{-1}) + (9 \times 10^{-2})$?

4. Use the Venn diagram below to find $n(x \cap y)^1$



5. Round off 6473 to the nearest hundreds.

6. Find the sum of the next two numbers in the sequence;
41, 40, 38, 37, 35, ___, _____

7. Simplify: $\bar{3} - \bar{7}$.

8. Subtract: $(x - 4)$ from $3(x + 2)$

9. How many $\frac{1}{4}$ litre bottles can be got from a 20 litre jerrycan of water?

10. Find the LCM of 18 and 24.

11. It takes 12 men 4 days to do a piece of work. How long will it take 8 men to do the same work?

12. Using a ruler and a pair of compasses, construct an angle of 135° in the space provided below.

13. Solve: $\frac{5}{x}$ (finite 7)

14. Find the average of (4x + 1), 5x and 14.

15. Martha bought 1500gm of tea leaves. Express the quantity bought in kilogrammes.

16. A Mathematics examination ended at 11:15am. If it lasted $2\frac{1}{2}$ hours. When did it start?

17. Express 40 m/s to km/h.

18. Workout: (4.3 x 85) - (4.3 x 55) using distributive property.

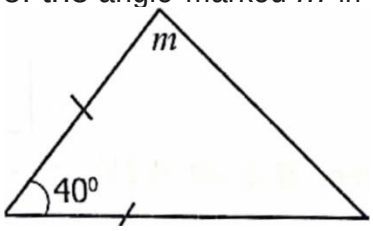
19. Given the exchange rates below;

1 USD costs UGX 3600

1 KES costs UGX 36

If the cost of a T.V set is KES. 14,000, how much money did it cost in US dollars?

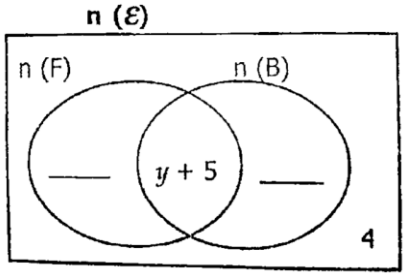
20. Find the size of the angle marked *m* in the figure below.



SECTION B (60 MARKS)

21. In a certain class, 27 pupils play Football (F) only, $(y + 10)$ play Basketball (B) only, $(y + 5)$ play both Football and Basketball, while 4 pupils play other games.

(a) Use the information to complete the Venn diagram below. *(02marks)*



(b) If 29 pupils play Basketball, find the value of y. *(02 marks)*

(c) How many pupils play one game? *(01 mark)*

22. (a) Using a ruler and a pair of compasses, construct a triangle ABC where AB = 6cm, angle ABC = 120^0 and angle BAC = 30^0. (04 marks)

(b) Measure line AC = _____cm **(1 marks)**

23. In a bus park, three buses A, B and C set off for their journeys at intervals of 30 minutes, 40 minutes and 50 minutes respectively.

(a) After how Jong will they set off together? *{02 marks)*

(b) If they first set *off* together at 6:45a.m, at what time will they set *off* together again? *(03 marks)*

24. Namono travelled at a speed of 40km/h for $2\frac{1}{2}$ hrs from Kaliro to Kamuli.
He rested for one hour and continued to Jinja at a speed of 60km/h for $1\frac{1}{2}$ h.

(a) Find the distance between Kamuli and Kaliro. *(02 marks)*

(b) Calculate his average speed for the whole journey. *(03 marks)*

25. Sarah bought the following items from the shop.

(a) Complete the table below. *(04 marks)*

	QUANTITY	UNIT COST	AMOUNT
Meat	3kg	Sh 12,000per kg	Sh .....
Rice	..... kg	Sh 4,000per kg	Sh 28,000
Maize flour	750 g	Sh ..... per kg	Sh 2,100
		TOTAL	Sh .....

(b) If she was given a discount of 10%, how much discount was she offered? *(01 mark)*

26. A woman spends $\frac{1}{2}$ of her salary on rent, $\frac{1}{6}$, of the remainder on food, and *saves* the rest.

(a) What fraction does she save? *(03 marks)*

(b) If she saves Sh. 300,000, how much is her salary? *(02 marks)*

27. A teacher recorded some learners' marks as shown in the table below. Use it to answer questions that follow.

Marks	80	y	90	31
Number of pupils	2	4	2	3

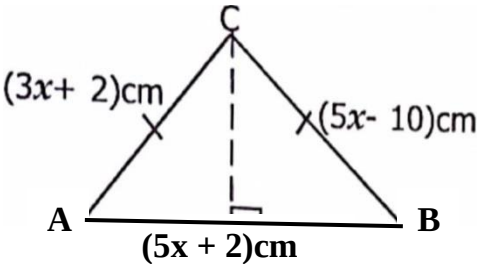
a) If the average score is 63 marks, find the value of y. (03 marks)

b) Find the median score. **(2 marks)**

28. (a) Express 200gm as a percentage of 2kg. (02 marks)

(b) Workout: $\frac{2.25\ x\ 3.6}{0.05\ x\ 0.9}$ **(03 marks)**

29. Study the triangle **ABC** and use it to answer questions that follow.



a) Find the value of x. *(02 marks)*

b) Calculate the area of the figure. *(03 marks)*

30. Jane is 18 years younger than Mukasa. In 10 years time, Mukasa will be twice as old as Jane.

(a) How old is Jane now? *(03 marks)*

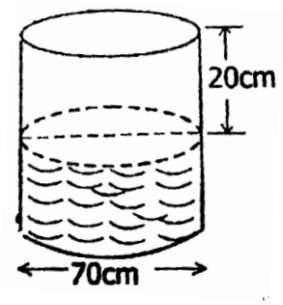
(b) How old will Mukasa be in 10 year's time? **(02 marks)**

31. a) The interior angle sum of a regular polygon is 1080^0. Calculate the number of sides the polygon has. (03 marks)

b) Calculate the size of each interior angle. **(02 marks)**

32. The container below is $\frac{3}{4}$ full of juice. Study it carefully and use it to answer the questions that follow.

(a) Find the height of the whole container. *(02 marks)*



(b) Find the litres of the amount of juice in the container.

(Take π as $\frac{22}{7}$) (03 marks)

END

GOOD LUCK