PROVINCIAL-NAMIREMBE DIOCESE
COUHEIA PRIMARY SEVEN MOCK EXAMINATIONS 2023
MATHEMATICS

Time Allowed : 2 Hours 30 minutes

Index No.	Random No.						Personal No.		

Pupil's Name:.....

School Name:.....

Archdeaconry: .....

Read the following instructions carefully:

1. 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.
2. All the working for both sections **A** and **B** must be shown in the spaces provided.
3. **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.
4. **No calculators** are allowed in the examination room.
5. Unnecessary changes of work may lead to **loss** of marks.
6. Any handwriting that cannot easily be read may lead to **loss** of marks.
7. Do **not** fill anything in the boxes indicated: **"For Examiners' Use Only"** and those inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	**MARKS**	**EXR'S SIGN**
1 - 5		
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.*

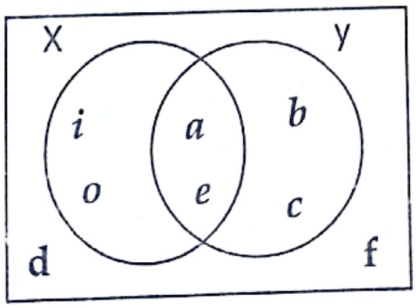
*Questions **1** to **20** carry two marks each*

1. Workout: 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: $^{-}3 - {}^{-}7$.

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

9. How many $\frac{1}{4}$ litre bottles can be got from a 20litre 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 135^0 in the space provided below.

13. Solve: $\frac{5}{x} = 4$ (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 2½hours. 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.

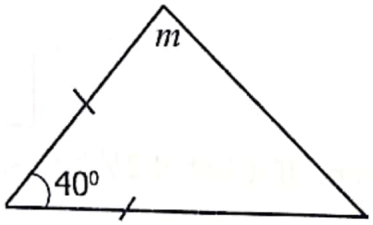
19. Given the exchange rates below;

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 k in the figure below.



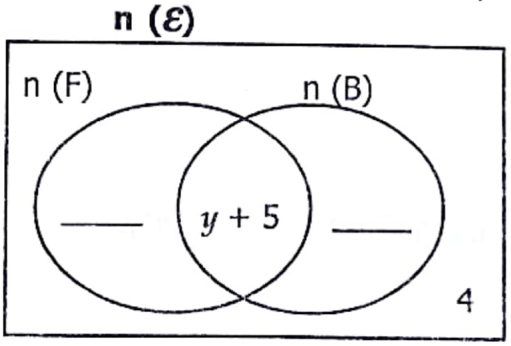
SECTION B: 60 MARKS

*Answer **all** the questions in this section.*

Marks for each question are indicated in brackets.

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. 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 long 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)*

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

(b) Measure line AC =_____ cm *(01 mark)*

24. Namono travelled at a speed of 40km/h for 2½h from Kaliro to Kamuli. He rested for one hour and continued to Jinja at a speed of 60km/h for 1½h.

(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)*

ITEM	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

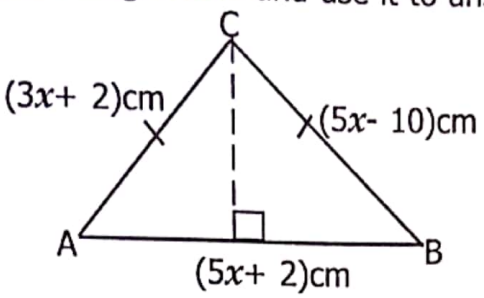
(a) If the average score is 63 marks, find the value of y. (03 marks)

(b) Find their median score. *(02 marks)*

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

(b) Work out: $\dfrac{2.25 \times 3.6}{0.05 \times 0.9}$ *(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)*

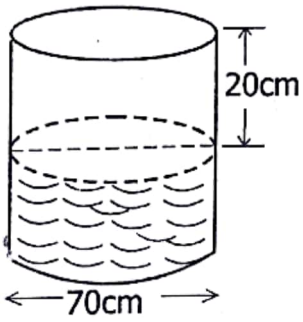
(b) How old will Mukasa be in 10 year's time? *(02 marks)*

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 the amount of juice in the container.
(Take π as $\frac{22}{7}$) *(03 marks)*

END