



**NORTH ANKOLE DIOCESE**  
**EDUCATION DEPARTMENT**  
**PRE-PRIMARY LEAVING EXAMINATION, 2024**



**MATHEMATICS**

Time Allowed: 2 Hours 30 Minutes

Index No.:

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Candidate's Name: \_\_\_\_\_

School Name: \_\_\_\_\_

Archdeaconry: \_\_\_\_\_

Read the following instructions carefully.

1. This paper has two sections: **A** and **B**. Section **A** has **20** questions (**40 marks**) and section **B** has **12** questions. (**60 marks**)
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 be easily read may lead to **loss of marks**.
7. Do not fill anything in the boxes indicated: "**For Examiner's Use Only**" and those inside the question paper.

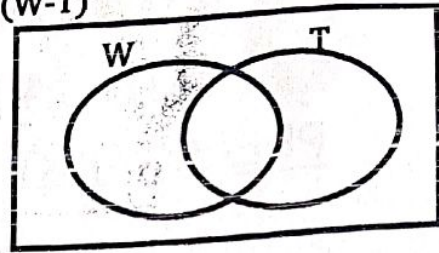
**"FOR EXAMINER'S USE ONLY"**

Qn. No.	MARKS	EXR'S NO.
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

**SECTION A: (40MARKS)**1. Work out:  $364 - 121$ 

4

In the venn diagram below shade (W-T)'

2. Simplify:  $7 - 4(3h + 8)$ 

5.

The temperature of a certain place was increased by  $4^{\circ}\text{C}$  to  $-12^{\circ}\text{C}$ . What was the temperature initially?

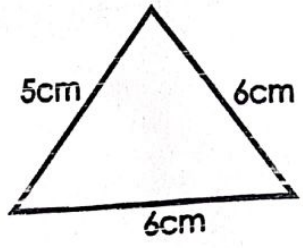
3 Atim is 94 years old. Express her age in Roman numerals.

6.

Find the value of 8 in the number 58,374.



7.	A bus from Jinja reached Kampala at 1:20pm. If it took 2 hours and 40 minutes to reach Kampala, at what time did it leave Jinja?	10	Tap K takes 3 minutes to fill the tank. Tap H takes 4 minutes to empty the same tank. How long would it take the same tank to be full if both taps are left open?
8.	Solve for y: $4 = 3y$ (finite 5)	11.	Find the next number in the sequence below. 1, 2, 4, 8, 16, _____
9	Find the GCF of 12 and 15.	12.	Cards marked 1 to 9 are folded and put in a tin and then mixed up. What is the probability of picking a card at random that is marked with a prime number?

<p>13. Using a pair of compasses, ruler and pencil only, construct an angle of <math>30^\circ</math> in the space provided below.</p>	<p>16. How many lines of folding symmetry does the given figure below have?</p> 
<p>14. Set <math>K = \{3, 4, 5\}</math>. Find the number of proper subsets in set K?</p>	<p>17. Ssebuliba and Mukhola shared mangoes in the ratio of 3:4 respectively. After Mukhola eating a third of his share, they both remained with 34 mangoes. Find Ssebuliba's share.</p>
<p>15. The following angles: <math>2m^\circ</math>, <math>m^\circ</math>, and <math>3m^\circ</math> lie on the straight line. Find the value of <math>m</math> in degrees.</p>	<p>18. Mwebesa had banknotes numbered from BD324456 to BD324753. If each banknote was worth ten thousand shillings. How much money did Mwebesa have?</p>

19. The mean of  $2k - 1$ ,  $5$ ,  $k$  and  $4k - 2$  is  $11$ . Find the value of  $k$ .

20. Given that USD 1 = Ugsh. 3770. How much money in Uganda shillings can one get from USD 300?

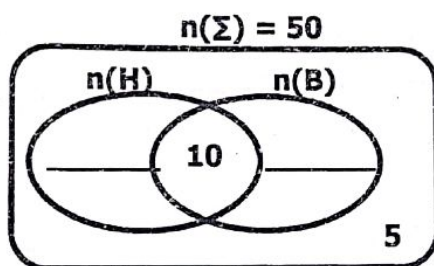


**SECTION B. (60 MARKS)**

21. In a club of 50 members,  $k$  play Hockey (H), 30 play Baseball (B), 10 play both games while 5 do not play any of the two games.

(a) Complete the venn diagram below using the information given above.

(02marks)



(b) How many members play Hockey only?

(03marks)



- 22 (a) Using a pair of compasses, a ruler and a pencil only, construct a triangle KLM in which angle  $KLM=60^\circ$ , angle  $KML=45^\circ$  and side  $KM=6.5\text{cm}$ . (05marks)



- 23 (a) Workout:  $\frac{0.09 + 0.04}{0.59 - 0.23}$

(03marks)

(b) Simplify:  $\frac{1}{2} - \left(\frac{1}{4} + \frac{1}{3}\right) \times \frac{3}{4}$

(03marks)

24

(a) Find the additive inverse of -6.

(02marks)

(b) A lady was born in 25BC and died in 15AD. At what age did she die?

(02marks)

25. (a) Workout:  $1 \div 3$  (finite 7)

(02marks)

(b) Mubiru was to seat visitors, in seating them in **nines**, 7 seats remained. In seating them in **eights**, 4 seats remained and he chose to seat them in **threes**, 1 seat remained. How many visitors did he have? (03marks)

26 Given the number 42.537.

(a) Write the place value of 3 in the given number above. (01mark)

(b) Find the product of the value of 4 and place value of 7 in the given number above. (03marks)



27. Aidah, Bridget and Carol contributed certain amount of money in the ratio of 5:3:7 respectively. Given that both Aidah and Carol contributed sh. 360,000,  
(a) Find their total contribution. (03marks)

(b) How much money did Carol contribute than Aidah? (02marks)

28. Shafiq went to the market and bought the following items.

- 2kg of meat at sh. 12,000 each kg
- $1\frac{1}{2}$ kg of rice at sh. 4,800 each kg
- 12 mangoes at sh. 3,000 for every 2 mangoes
- 500g of millet flour at sh. 2,000

(a) Calculate his total expenditure.

(04marks)

(b) If he was given 10% discount, how much did he pay?

(01mark)



29. A motorist uses 6 litres of fuel to cover 48 kilometres.

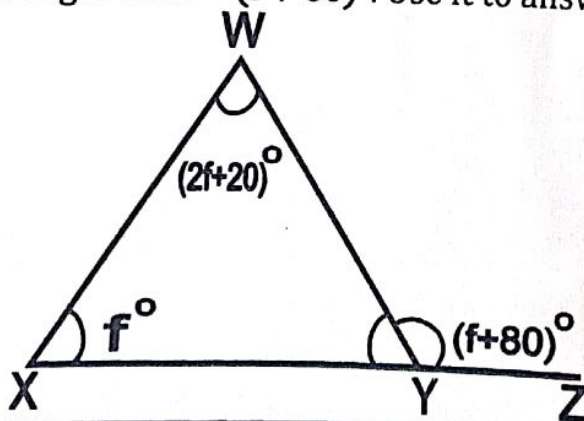
(a) What distance did he cover with 40 litres of fuel?

(02marks)

(b) Hamza covered a certain distance at 32km/h in 3 hours. How much money did he spend on fuel for the whole journey if each litre costs sh. 5,200?

(03marks)

30. In the figure below XYZ is a straight line. Angle  $WXY = f$ , angle  $XWY = (2f + 20)^\circ$  and angle  $WYZ = (f + 80)^\circ$ . Use it to answer the questions that follow.



(a) Find the value of  $f$  in degrees?

(03marks)

(b) Workout the size of angle WYX.

(02marks)



31. A businessman banked sh. 600,000 on his fixed account at an interest rate of 10% per annum for 6 months.

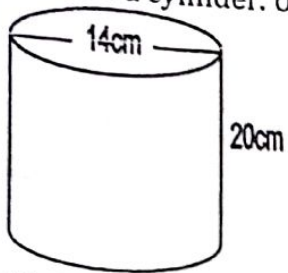
(a) How much interest did he earn after 6 months?

(03marks)



(b) Calculate the amount of money he got from his account after 6 months? (02marks)

32. Below is a cylinder. Use it to answer the questions that follow.



(a) Calculate its base area.

(02marks)

(b) Find the capacity of the cylinder.

(03marks)



**-END-**