HILLSIDE PRIMARY SCHOOL
BEGINNING OF TERM TWO EXAMINATIONS
2024
MATHEMATICS (SET SIX)
Time Allowed: *2 Hours 30 Minutes*

Index No.

Candidate's Name..

Candidate's Signature...

Stream...

Read the following instructions carefully:

1. The paper has **two** sections: **A** and **B**.
   Section A has 20 questions and Section B has 12 questions

2. Answer **all** questions. All answers to both sections **A** and **B** must be written in the spaces provided.

3. **All** working must be done using a blue or black ball-point pen or fountain pen. Any work written in pencil other than graphs and diagrams will not be marked

4. No calculators are allowed in the examination room.

5. Unnecessary changes in work may lead to loss of marks. Any handwriting that cannot easily be read may lead to loss of marks.

6. Do not fill anything in boxes indicated: **"For Examiners' Use Only"** and those inside the paper.

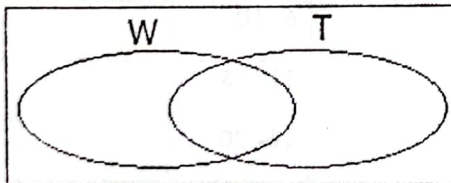| Qn. No.	MARKS	EXRS' NO
1- 5		
6- 10		
11- 15		
16- 20		
21- 22		
23- 24		
25- 26		
27- 28		
29- 30		
31- 32		
TOTAL		

FOR EXAMINERS' USE ONLY

SECTION A: (40 Marks)

1. Work out: 364 - 121

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

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

4. In the Venn diagram below shade *(W-T)'*

5. The temperature of a certain place was increased by 4^0c to -12^0c. What was the temperature initially?

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

7. A bus from Jinja reached Kampala at 1:20 p.m. If it took it 2hrs and 40 minutes to reach Kampala, at what time did it leave Jinja?

8. Solve for y: 4 = 3y(finite 5)

9. Find the GCF of 12 and 15.

10. Tap K takes 3minutes to fill the tank. Tap H takes 4minutes to empty the same tank. How long would it take the same tank to be full if both taps are left open?

11. Find the next number in the sequence below.

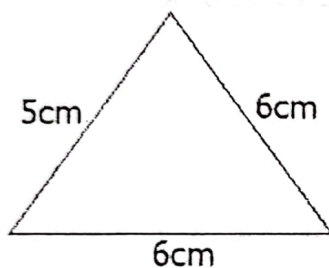   1, 2 , 4, 8, 16 , ...

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?

13. Using a pair of compasses, ruler and pencil only. Construct an angle of 30° in the space provided below.

14. Set K = {3, 4, 5}. How many proper subsets are in set K?

15. The following angles: 2m°, m° and 3m° lie on the straight line. Find the value of m in degrees.

16. How many lines of folding symmetry does the given figure below have?

5cm   6cm

6cm

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

18. Mwebesa had banknotes numbered consecutively from BD324456 to BD324753. If each banknote was worth ten thousand shillings. How much money did Mwebesa have?

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

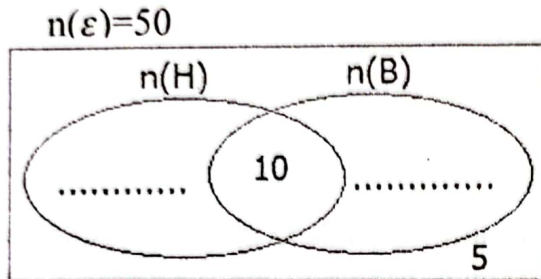20. Given that USD 1=Ug.Sh.3770. How much in Uganda shillings can one get from his USD 300?

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.   *(02 marks)*

    n(ε)=50

    b) How many members play only Hockey?   *(03 marks)*

22. a) Using a pair of compasses, a ruler and a pencil only, construct a triangle KLM in which angle KLM = 60^0, angle KML=45^0 and side KM = 6.5cm.   *(04 marks)*

23. a) Work out: $\dfrac{0.08 + 0.04}{0.59 - 0.23}$ **(03 marks)**

b) Simplify: $\dfrac{1}{2} - \left(\dfrac{1}{4} + \dfrac{1}{3}\right) \times \dfrac{3}{4}$ **(03 marks)**

24. a) Find the additive inverse of -6 **(02 marks)**

b) A lady was born in 25BC and died in 15AD. At what age did she die? **(02 marks)**

25. a) Workout; 1 ÷ 3 (finite 7) *(02 marks)*

   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? *(03 marks)*

26. Given the number 42·537
   a) Write the **place value** of 3 in the given number above.   *(02 marks)*

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

27. Aidah, Bridget and Carol contributed a 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. **(03 marks)**

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

28. Shafick 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 2mangoes.
  ➤ 500g of millet flour at sh. 2,000
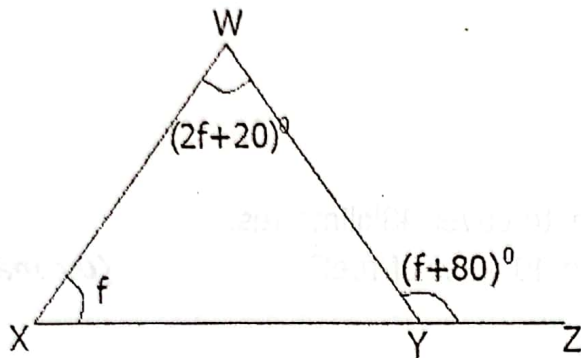
a) Calculate his total expenditure **(04 marks)**

b) If he was given 10% discount, how much did he pay? *(01 marks)*

29. A motorist uses 6 litres of fuel to cover 48kilimetres.
    a) What distance he cover with 40 litres of fuel? *(02 marks)*

    b) Hamza covered a certain distance at 32km/hr in 3hours. How much money did he spend on fuel for the whole journey if each litre costs sh.5,200? *(03 marks)*

30. In the figure below XYZ is a straight line. Angle WXY = x, angle XWY = $(2f +20)^0$ and angle WYZ = $(f+80)^0$. Use it to answer the questions that follow.

```
           W
          /\
         /  \
    (2f+20)⁰\
       /      \
      /        \
     /       (f+80)⁰
    / f        \
   X _____ Y _____ Z
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a) Find the value of f in degrees.   **(03 marks)**

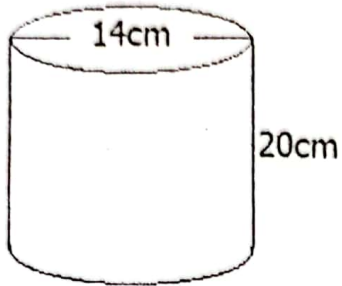b) Work out the size of angle WYX.   **(02 marks)**

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

a) How much interest did he earn after 6months? **(03 marks)**

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

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

a) Calculate its base area.   (02 marks)

b) Find the capacity of the cylinder.   (03 marks)

END