HILLSIDE PRIMARY SCHOOL-NAALYA

MID-TERM ONE EXAMINATIONS

2023

MATHEMATICS (Set one)

Time Allowed: 2 Hours 30 Minutes

Name: .... Stream: ....

Read the following instructions carefully

1. The paper has **two** sections: **A** and **B**.

2. **All** the working for both sections **A** and **B** must be shown in the spaces provided.

3. **All** the working must be done using a blue or black ball-point pen or fountain pen. Diagrams must be drawn in pencil.

4. **Calculators** are not 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 boxes indicated: **"For Examiners' Use Only"** and those inside the question paper.

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

1

SECTION A: (40 marks)

1. Multiply :

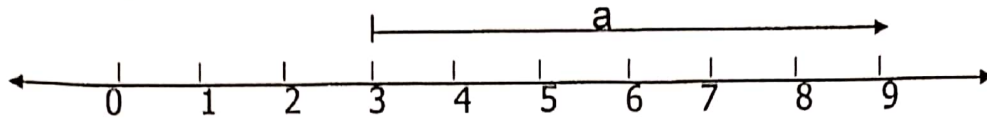$$\begin{array}{r} 4\ 2 \\ \times\ 3 \\ \hline \\ \hline \end{array}$$

2. Simplify: $5k - 3 + 4k + 7$

3. Write 10,001 in words.

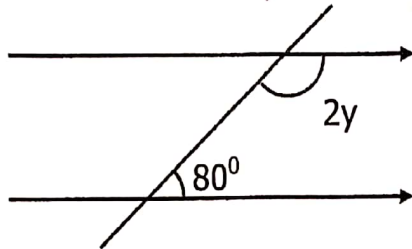4. Given that the subsets of set P are { }, {1}, {2}, {1, 2}. Find n(P)

5. Write XCIX in Hindu Arabic numerals.

6. What integer is represented by arrow marked a below?

7. A forty-five-minute meeting started at 10:30a.m. At what time did it end?

8. Find the value of y in the diagram below

9. Simplify: $\frac{3}{4} - \frac{1}{3}$

10. A tray contains 30 eggs. 25 are good and the rest are bad. Find the probability of randomly selecting a bad egg from the tray.

11. Convert 21_{ten} to binary system.

12. Given that USD 1=Ug Sh.3800, how much Uganda Shillings can a tourist get from USD 230?

13. Express 6479 in scientific notation.

14. Solve: $4r + 6 = 22$

15. Draw a Venn diagram to show that $X \cap Y = Y$

16. The cost of a dozen of rulers is Sh.7,200. Calculate the cost of 7 similar rulers.

17. Convert 4:20p.m. to 24-hr clock.

18. Change $\frac{3}{5}$ to a decimal.

19. Increase Sh.12,000 in the ratio of 5:3.

20. Using tallies, represent 18.

SECTION B.

21. The sum of three consecutive odd numbers is 39.

    a) Find the numbers $\qquad$ (4 marks)
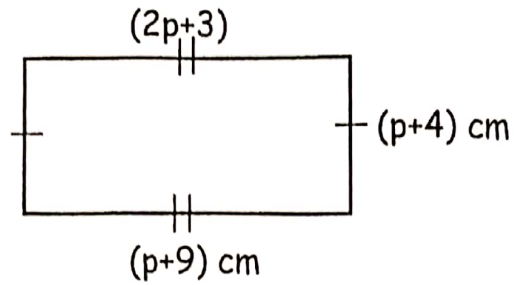
    b) Work out their range $\qquad$ (1 mark)

22. a) Simplify: $\frac{2}{3} of \frac{3}{4} - \frac{1}{3}$ (2 marks)

    b) Work out: $\dfrac{0.18 \times 1.5}{0.06 \times 0.5}$ (3 marks)

23. Use the rectangle below to answer questions about it.

(2p+3)

(p+4) cm

(p+9) cm

a) Find the value of p   (2 marks)

b) Work out its area of the shape.   (3 marks)

24. Given the digits **3, 0** and **5,**

a) Form the smallest three-digit numeral.   (1mark)

b) Write the largest three-digit numeral.   (1mark)

c) Find the sum of the largest and the smallest three-digit numerals

(2marks)

25. The table below shows the marks obtained by pupils in a test.

Number of pupils	3	2	4	1
Mark	70	80	85	100

a) How many pupils did the test?   (2 marks)

b) Calculate the average mark.

(3marks)

26. A bank manager deposited bank notes numbered consecutively from CF 7458 TO CF 7507.

    a) How many bank notes did he deposit?   (3 marks)

    b) If he deposited Sh.5,000 notes, find the amount he deposited.

                                                  (2 marks)

27. A motorist covered the first part of the journey in 2 hours at 65Km/hr. He rested for an hour and then completed the remaining part of the journey in 3 hours at 50Km/hr.

    a) Find the total distance the motorist covered.   (3 marks)

    b) Calculate the average speed for the whole journey.   (2 marks)

28.   a) Using a pair of compasses and a ruler only, construct a triangle FGH
      in which line FG = 6cm, angle HFG = 60^0 and angle FGH = 45^0.

                                                              (4 marks)

      b) Measure line FH.   (1mark)

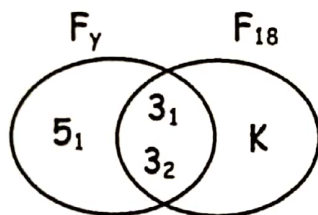29.   Given that $y = 2x + 2$. Complete the table below.   (5marks)

X	2	—	0	—	⁻3
Y	—	6	—	10	—

30. a) Solve: $x + 3 = 2 (finite\ 5)$.   (2marks)

   b) If yesterday was Monday, what day of the week will it be 43 days from now?   (2marks)

31. Use the factor set below to answer questions about it.

   F_y F_{18}

   a) Find the value of
      i) Y   (2marks)
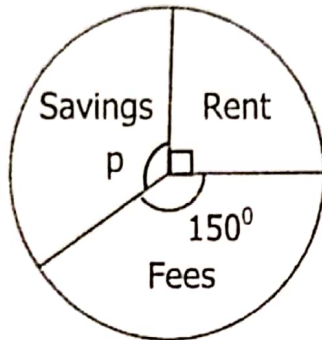
      ii) K   (2marks)

iii)   Calculate the Lowest Common Multiple of Y and 18.   (2 marks)

32. The divided circle below shows how a family spends Sh. 72, 000.

a) Find the value of P.   (3 marks)

b) How much more money does the family spends on fees than rent?
                                                          (3 marks)

END