THE ROSHA EXAMINATIONS BOARD

PRE-PRIMARY LEAVING EXAMINATIONS 2023

MATHEMATICS TRIAL SET I

Time Allowed: 2 hours 30 minutes

Index No	Random no.						Personal no.		

Candidate's Name: _____

Candidate's Signature: _____

School Name: _____

Read the following instructions carefully:

1. The paper has **two** sections: **A** and **B**
2. Section **A** has 20 short questions (40 marks)
3. Section **B** has 12 questions (60 marks)
4. Answer **ALL** questions. All answers to both Sections A and B must be written in the spaces provided.
5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary alteration of work may lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks.
8. Do **not** fill anything in the boxes indicated: "for Examiner's use only".

FOR EXAMINER'S USE ONLY		
Qn. No	**MARK**	**SIGN**
1 – 10		
11 – 20		
21 – 30		
31 – 32		
TOTAL		

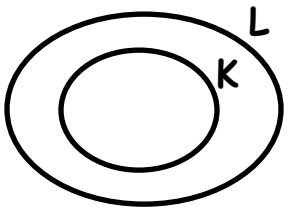
Turn Over

SECTION A

1. Work out:
$$\begin{array}{r} 7\ 5 \\ -\ 1\ 2 \\ \hline \end{array}$$

2. Write "two thousand one hundred twenty seven" in figures.

3. In the Venn diagram below,
Shade **K ∩L**



4. Paul went to bed at **2:30hrs.** Write this time in a 12 – hour clock system.

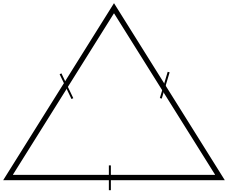
5. Arrange the following numbers in ascending order.

   3, 0, $^{-}1$, 8, $^{-}2$

6. Write **45** in Roman numerals.

7. Dingo bought a belt at **Sh. 12000** and sold it at **Sh. 15000**. Calculate his profit.

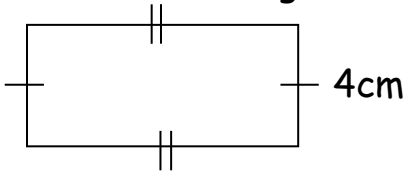
8. How many lines of symmetry has the figure below?



9. The probability that a learner goes to school is $\frac{5}{7}$. What is the probability that the learner will stay at home?

10. Work out $\mathbf{111_{two} + 11_{two}}$

11. Calculate the length of the rectangle below if its perimeter is 20cm.



12. Find the next number in the sequence.

    1, 4, 9, 16, _____

13. The cost of **3** fountain pens is **Shs. 9000**. What is the cost of one similar fountain pen?

14. Expand **6478** using values.

15. Workout: $\frac{1}{2} + \frac{1}{3}$

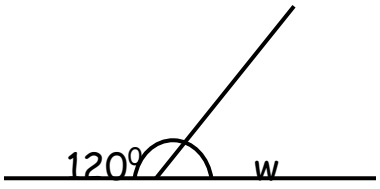
16. Set K $= \{a, b, c, d\}$. Find the number of subsets in set K.

17. **Divide: 3535** by **5**

18. Simplify: $^{-}7 - ^{-}3$

19. What number has been expanded to give: **500 + 50000 + 5**?

20. Find the value of **w**.



SECTION B (60 Marks)

21. Given digits **8, 5, 2**

a) Form the smallest number. (1mk)

b) Form the largest number. (1mk)

c) What is the sum of the number formed? (2mks)

22. Andrew scored the following marks in the End of term II exams.

40, 70, 30, 50, 70

a) Find the range. (1mk)

b) What is the median mark? (1mk)

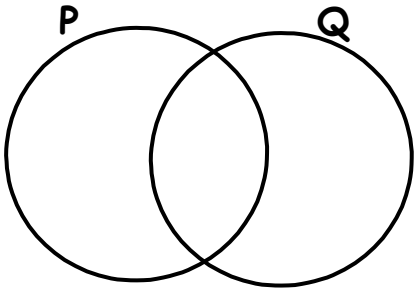
c) Workout the mean mark. (3mks)

23. Given that set

$\mathbf{P}=\{1, 2, 3, 4, 5, 6, 7, 8\}$

$\mathbf{Q}=\{2, 4, 6, 8, 10\}$

a) Represent the above sets on the Venn diagram below. (2mks)



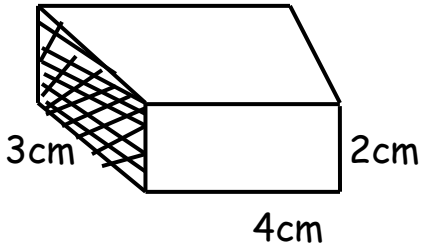
b) Find:

i) $P \cap Q$ (1mk)

ii) $n(P \cap Q)$ (1mk)

iii) $P \cup Q$ (1mk)

24. Study the cuboid below and answer questions that follow.

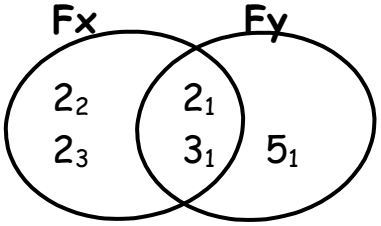


a) How many faces has it got? (1mk)

b) Find the area of the shaded part. (2mks)

c) Calculate the volume of the cuboid. (2mks)

25. Use the Venn diagram below to answer the questions that follow.



a) Find the value of x. (2mks)

b) Find the G.C.F of x and y. (2mks)

c) Find the L.C.M of x and y. (2mks)

26.a) Using a ruler, a pencil and a pair of compasses only, construct a Pentagon of each side 6.5cm. (4mks)

b) Calculate the total distance round the figure. (1mk)

27. In a class of **60** pupils, $\frac{3}{5}$ of them are boys and the rest are girls.

a) What fraction represents the number of boys in the class? (1mk)

b) How many girls are in the class? (2mks)

c) How many more boys than girls are in the class? (2mks)

28.a) Write **40,023** in words. (1mk)

b) What is the value of **4** in the above numeral? (1mk)

c) Represent the above numeral in (a) on the abacus.(2mks)

29. Matalan went to Mumu super market and bought the following items.
    - 2 kg of sugar at Sh. 3200 per kg
    - A loaf of bread at Sh. 3500
    - $1\frac{1}{2}$ bar of soap at Sh. 4200 per bar
    - 3 kg of salt at Sh. 1200 per kg

a) What was his total expenditure? (4mks)

b) If he went with Sh. 55000/=, how much was his change. (2mks)

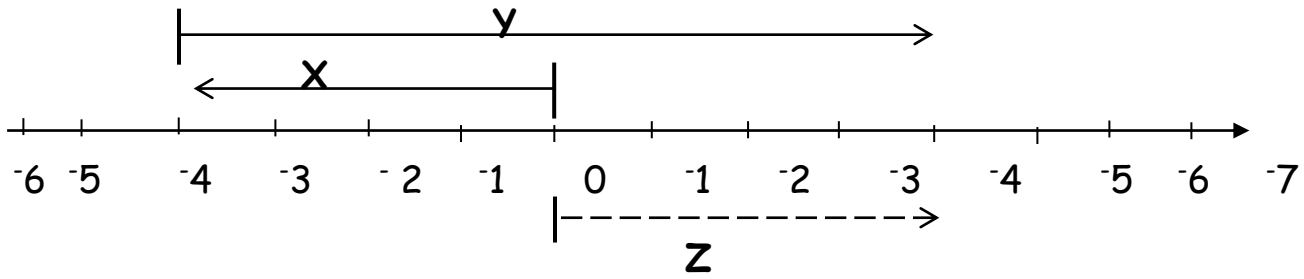
30. If x= 4, y = 2 and k = 3. Find the value of:

a) $x + y + k$ (1mk)

b) xyk (2mks)

c) $\frac{x}{y}$ (2mks)

31. Below is a number line.



a) Write down the integers represented by the letters on the number line.

i) X _____ (1mk @)

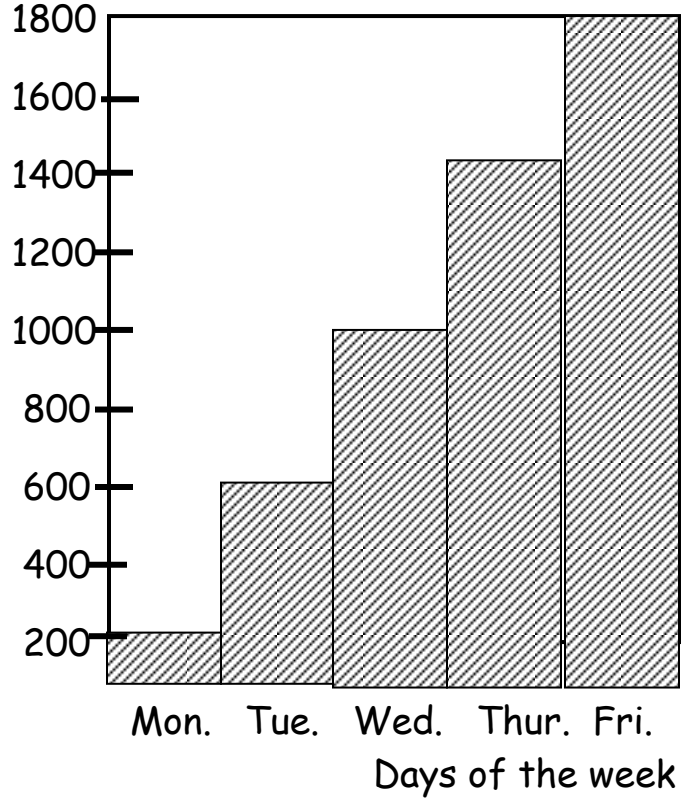
ii) Y _____

iii) Z _____

b) Write a mathematical sentence shown on the number line. (2mks)

_____

32. The graph below shows attendance of pupils at Kimmo Primary school in the first week of term I 2023.



a) Which day had the least number of attendance? (1mk)

b) How many pupils attended on Thursday? (1mk)

c) Find the total number of pupils who attended on Monday, Tuesday and Wednesday.

(3mks)