THE ROSHA EXAMINATIONS BOARD

PRIMARY LEAVING MOCK EXAMINATIONS 2023

MATHEMATICS SET III

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".

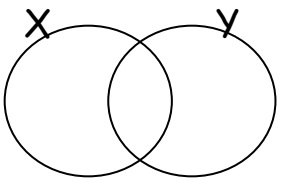
FOR EXAMINER'S USE ONLY		
Qn. No	**MARK**	**SIGN**
1 – 10		
11 – 20		
21 – 30		
31 – 32		
TOTAL		

Turn Over

SECTION A: (40 MARKS)

1. Work out: 20 ÷ 2

2. Shade X – Y



3. Simplify: $^{-}7 - {}^{-}4$

4. Write 66002 in words

5. Subtract:

	Hr.	Min
	4	2 0
-	1	5 0

6. Add: $2\ 3\ 1_{five}$

$\underline{+\ 2\ 2_{five}}$

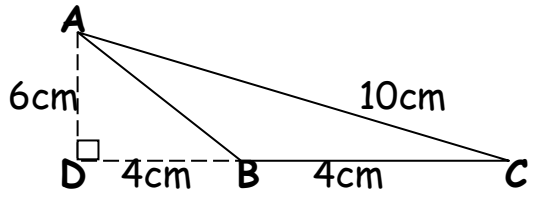
_____

7. Find the next number in the sequence.

5, 6, 8, 11, 15, ____

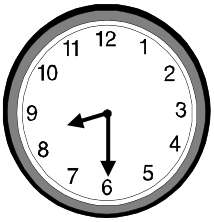
8. A driver covered $\frac{1}{3}$ of his journey of 72km. What distance did he cover?

9. Find the area of triangle ABC.



10. Using a compass and a sharp pencil, construct an angle of 60^0.

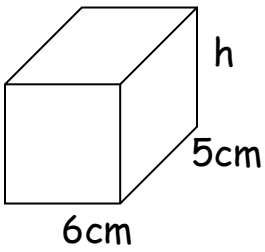
11. What morning time is shown on the clock face?



12. Abass sold a fridge at Sh. 850,000 making a loss of sh. 115,500. What was the buying price of the fridge?

13. Work out: $\frac{1}{2} + \frac{1}{3}$

14. The volume of a box is $120cm^3$. Find its height.



15. Solve: $y + 2y + 3y = 48$

16. How many lines of symmetry does a rectangle given below have?

17. A cyclist rode for 4 hours at a speed of 65km per hour. Find the distance he travelled.

18. Work out: 3 + 4 = _____ (finite 5)

19. Find the value of: $\frac{3m + 6p}{r}$ If p = 2, m = 4 and r = 3

20. A pupil scored the following marks in Mathematics tests;

    45, 70, 29, 64, 39, 51, 72. Find the median mark.

SECTION B (60 marks)

21. (a) Find the number that has been expanded to give;

$(8 \times 10^4) + (3 \times 10^2) + (5 \times 10^0)$ *(2 marks)*

(b) Draw and how 4203 on the abacus. *(2 marks)*

(c) Kato's grandfather is 99 years old. Express her age in Roman numerals.

(2 marks)

22. Bushirah went shopping and bought the following items;

3kg of maize flour at sh. 1800 a kg.

1 ½ kg of rice at sh. 2400 a kg.

½kg of salt at sh. 1000 for every 1 kg.

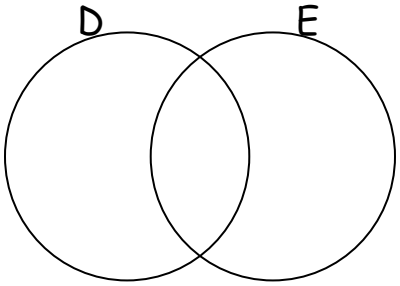
4 bars of soap at sh. 5500

What was her total expenditure? *(5 marks)*

23. If D = {1, 2, 3, 4, 5, 6}

E = {1, 4, 9, 16, 25}

(a) Represent the above information on the Venn diagram. *(2 marks)*



(b) Find: $(D \cap E)$ *(1 mark)*

(c) Find D' *(1 mark)*

(d) Find $n(D \cup E)$ *(1 mark)*

24. Work out: (a) $\frac{1}{2}$ of 36 + $\frac{3}{4}$ of 16 *(2 marks)*

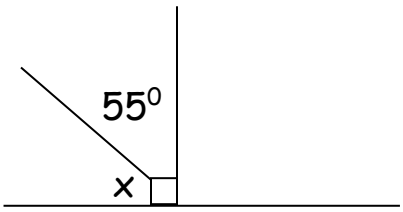
(b) Simplify: $\frac{3}{4} \div 1\frac{1}{2}$ *(2 marks)*

(c) Find the missing number. *(1 mark)*

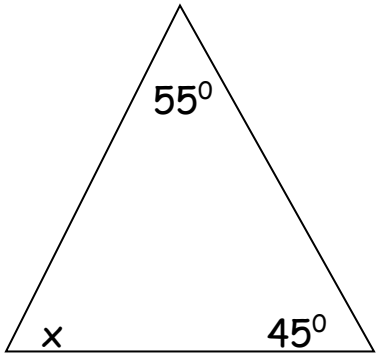
$$\frac{3}{5} = \frac{12}{\square}$$

25. (a) Find the unknown angle *(2 marks each)*

(i)



(ii)



(b) Raihan took anticlockwise direction from East to point West. Through what angle has she turned? *(2 marks)*

26. Khadijah scored the following marks in Maths weekly tests;

80, 70, 68, 70 and 62. Calculate Khadija's

(a)mean mark *(2 marks)*

(b) modal mark *(1 mark)*

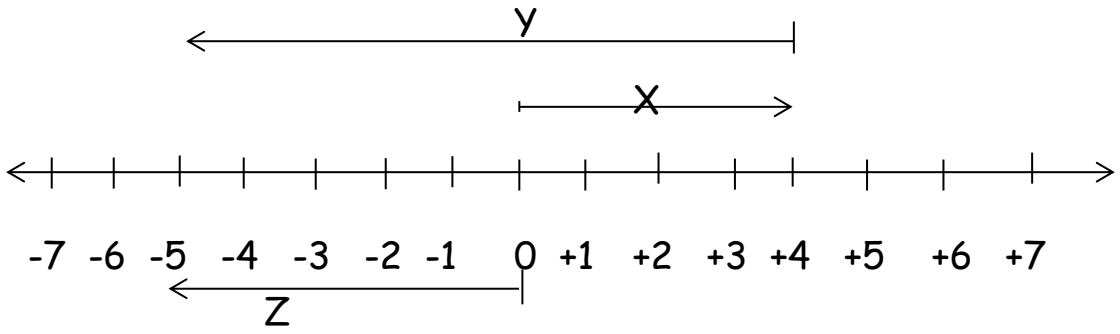
(c)range *(2 marks)*

27. (a) Solve: $\frac{3a}{5} = 9$ *(2 marks)*

(b) Solve: $P + 17 = 36$ *(2 marks)*

(c) Kibetu received 5y books from her mother, father gave her 3y books and she bought 4 books. Altogether she had 36 books. Find the value of y.
(2 marks)

28. Study the number line below and answer the questions that follow.



(a) Identify the integers represented by the arrows; *(1 mark each)*

(i) X _____ (ii) Y _____ (iii) Z _____

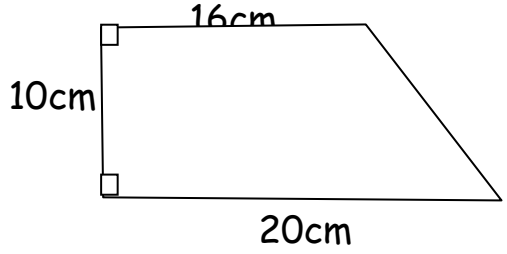
(b) Write down the mathematical statement shown on the above number line.

(1 mark)

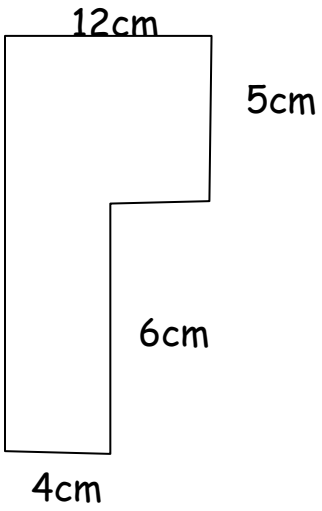
29. (a) Add: 0.25 + 2.5 + 25 *(2 marks)*

(b) Subtract: 8.54 - 2.34 *(2 marks)*

30. (a) Find area of the figure below. *(2 marks)*

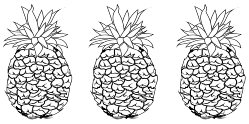


(b) Find the perimeter of the figure below. *(2 marks)*



31. Using a ruler, a pencil and a pair of compasses only, construct an equilateral triangle of 4cm each side. *(4 marks)*

32. *The pictograph below shows different fruits collected by 3 pupils for Mathematics lesson. Study it and answer the questions that follow.*

Abass	
Cyrus	
Abdu	

Scale

represents 2 apples.

represents 6 bananas

represents 3 pineapples

(a) How many apples did Abass bring? *(1 mark)*

(b) Who brought more fruits? *(2 marks)*

(c) Find the total number of fruits brought altogether. *(2 marks)*