JINJA CITY ACADEMIC BOARD

PRE REGISTRATION EXAMS 2023

MATHEMATICS

TIME ALLOWED : 2HOURS:30MINUTES

Index No. [ ][ ][ ][ ][ ][ ][ ][ ][ ]

Candidate's Name:..

candidate's Signature...

School Name.:..

Read the following instructions carefully

1. The paper has **two** Sections **A** and **B**

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

3. All answers must be written using a blue or black ball point pen or ink.

4. Unnecessary changes of work may lead to loss of marks.

5. Any handwriting that cannot easily be read may lead to loss of marks.

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

1. Work out 3

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

2. Fill in the missing number 4,_____,12, 16, 20,____

3. Given the number; Fifteen thousand two hundred sixty Seven. What digit is in the place value of thousands in this numeral?

4. Solve $5m - 1 = 9$

5. Add $\dfrac{3}{8} + \dfrac{1}{8}$
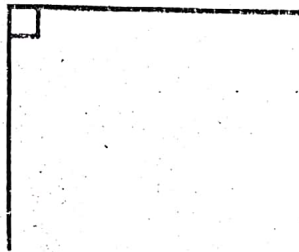
6. Simplify $4p + 3q - q + p$

7. Set T is a set of first 6 whole numbers list members of T.

Write 0.16 as a common fraction.

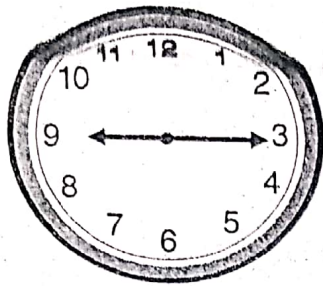Isiko was born in 1992. Write his age in Roman numerals

10. Name this angle

11. Using values expand 32780

12. What integer is four steps to the right of negative two?
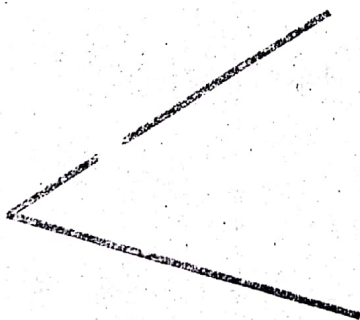
13. What night time is shown on the clock face below?

_____

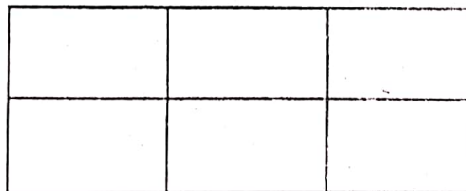14. If set Q={two} How many subsets has set Q

15. Round off 926 to the nearest tens.

16. A book cost shs. 2,000/= find the cost of 7 books
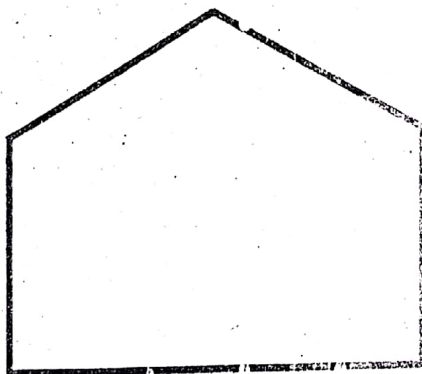
17. What is half of the angle below?

18. Shade $\frac{1}{3}$ of the figure below.

19.

Wks	Days
2	5
+ 6	4

20. Name the polygon below.

21. The table below show the performance of 3 candidate in mathematics in 3 different examinations.

	PRE-REG	MOCK	PLE
MBOOLI	82	76	96
MBWAALI	94	92	90
MBWIDHI	68	86	89

(a) What was the highest mark? (1mk)

(b) Which candidate decreased in performance in all the papers? 1mk)

(c) Find the PLE range. (2mks)

(d) What is average mark of Mbooli and Mbwaali's in Mock (2mks)

22. (a) Write 17_{ten} to base five (2mk)

(b) Add   1 1 0 two

    +1 0 1 two

    ‾‾‾‾‾‾‾‾

    ‾‾‾‾‾‾‾‾   (2mks)

23. Construct an equilateral triangle of sides 6cm   (4mks)

24. (a) Given that n=5, m=2 and p=3 substitute pnm   (2mks)

(b) Nangobi was five years, five years ago. How old will she be five years from now?   (2mks)

25. Isabirye left school for home at 4:30pm and arrived at 5:30pm, walking at 4km every 30min.
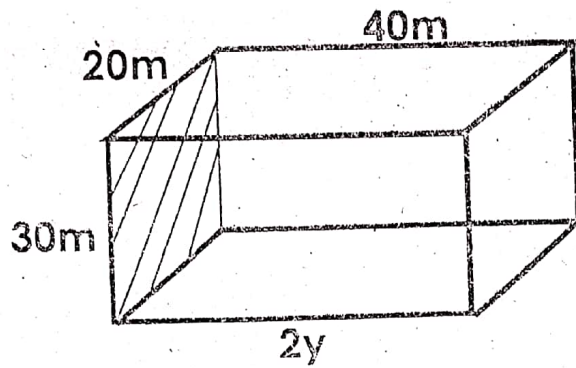
(a) Find the time he spent on the way.   (2mks)

(b) How far is school from home? (3mks)

26. Using the figure below.

(a) Find the value y (2mks)

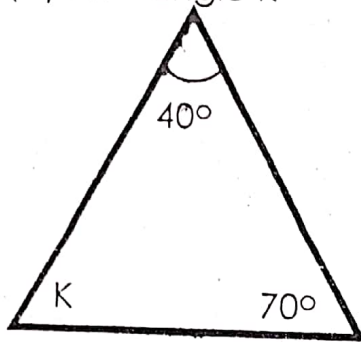(b) Find the perimeter of the shaded face (2mks)
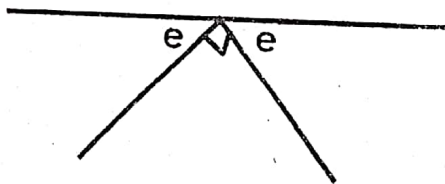
(c) Find the its volume (2mks)

27. (a) Find angle K (2mks)

(b) What is size of angle e? (2mks)

28. A poultry farm produces 480 eggs a day.
(a) How many trays of eggs does it produce daily? (2mks)

JC ACADEMIC BOARD RE REGISTRATION EXAMS 2023 MATHEMATICS

(b) If each tray of eggs cost sh. 9,000/=. How much the farm fetch in one week? (3mks)

29. The number of pupils in the school was 600 pupils in the first week. if the number increased by 400 in the week two,
(a) Find the total number of pupils by the second week. (2mks)

(b) Find the ratio increase. (2mks)

(c) What percentage of pupils came the second week. (2mks)

30. (a) List down all multiples of 3 between 10 and 20. (2mks)

(b) Which of the multiple(s) of 3 above is also a multiple of 4?   (2mks)

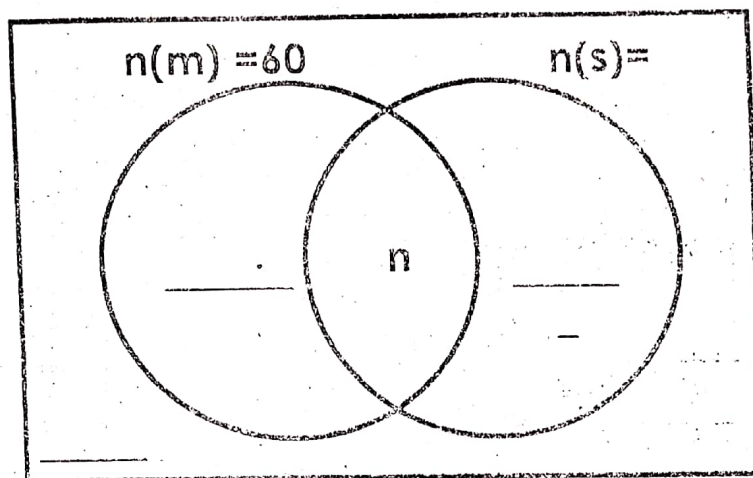31.   complete the shopping bill below   (5mks

Item	Quantity	Unity cost	Amount
Soap	_____bars	Shs 6,000	12,000
Sugar	1¹/₂kg	4,800	Shs_____
Bread	2 loaf	Sh 5,000	10,000
Salt	2kgs	Sh_____	2,400
TOTAL			

32. In Buwenda 60 farmers grow Matooke (m) 24 farmers grow sugarcane (S) only n farmers both crops and 12 farmers don't grow any of these two crops.

(a) Show this information on a venn diagram. (9mks)

n(m) =60   n(s)=

n

(b) Find the total number of farmers in Buwenda. (3mks)

END