EAGLE EXAMINATION BOARD

PRE-MOCK EXAMINATION 2023 ***SET II***

PRIMARY SEVEN

MATHEMATICS

Time allowed: 2 hours 30 minutes

	School EMIS						Personal NO.		
Index No.									

CANDIDATE'S NAME……

CANDIDATES' SIGNATURE: ……

READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

1. This paper has two sections: **A** and **B**.
2. Section A has 40 short questions (40 marks).
3. Section B has 15 questions (60 marks).
4. Attempt All questions. All answers to both Sections A and B must be written in the spaces provided.
5. All answers must be written using blue or black ball-point pen or ink. Only diagrams should be drawn using pencils in the spaces provided.
6. Unnecessary alteration of work may lead to loss of marks.
7. Any handwriting that cannot be easily read will lead to loss of marks.
8. Do not fill anything in the boxes indicated

FOR OFFICIAL USE ONLY			
SECTION	**EXAMS MARKS**	**T/L MARKS**	**OFFICE**
A			
B			
TOTAL			

SECTION A

1. Subtract:

$$\begin{array}{r} 905 \\ -\ 602 \\ \hline \\ \hline \end{array}$$

2. Write 446 in words.

3. Work out:

$$\begin{array}{r} 101_{\text{two}} \\ 11_{\text{two}} \\ \hline \\ \hline \end{array}$$

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

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

6. Solve: $4 - x = 7$

7. The L.C.M of two numbers is 24 and their G.C.F is 4. If one of the numbers is 8, find the second number.

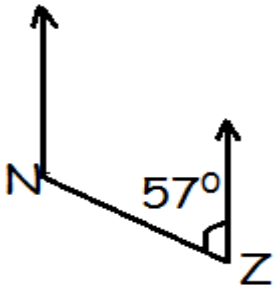
8. Round off 2.985 to the nearest whole number.

9. Set R and T have common members. Draw a Venn diagram and shade $(R \cap T)^1$

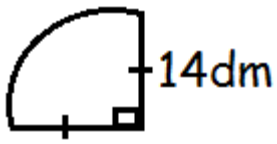
10. Given that $2^n = 64$, find the value of n.	11. Write CLIX in Hindu Arabic Numerals.

12. Mwanje had $\frac{2}{3}$ of an orange and gave $\frac{1}{2}$ of it to Nanteza. What fraction did he remain with?

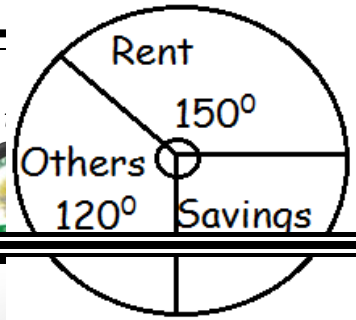
13. Find the bearing of N from Z in the diagram below.



14. Find the perimeter of the figure below:



15. The pie chart below shows how Namusisi spends her monthly salary of 600,000/=. How much money does she spend on others?



16. A mathematics test that was supposed to last for $2\frac{1}{2}$ hours ended at **1:07pm**. What time did it begin?

17. Express 0.4545…….as a common fraction in its simplest form.

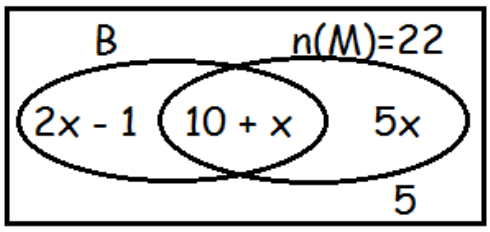
18. The cost of 6 boxes of chalk is 18000/=. Find the cost of 4 similar boxes of chalk.

19. Using a ruler and a pair of compasses only, construct an angle of 75^0 in the space below.

20. Solve: $3 - 3x < 12$.

SECTION B (60 MARKS)

21. The Venn diagram below shows the number of candidates who like Banana (B) and Mangoes (M). a) Find the value of x. (2mks)

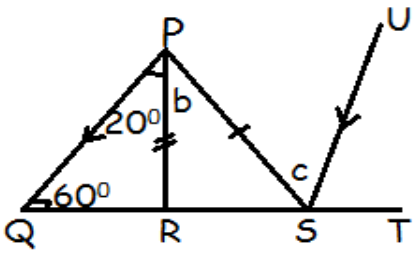


b) How many candidates like banana only? (2mks)

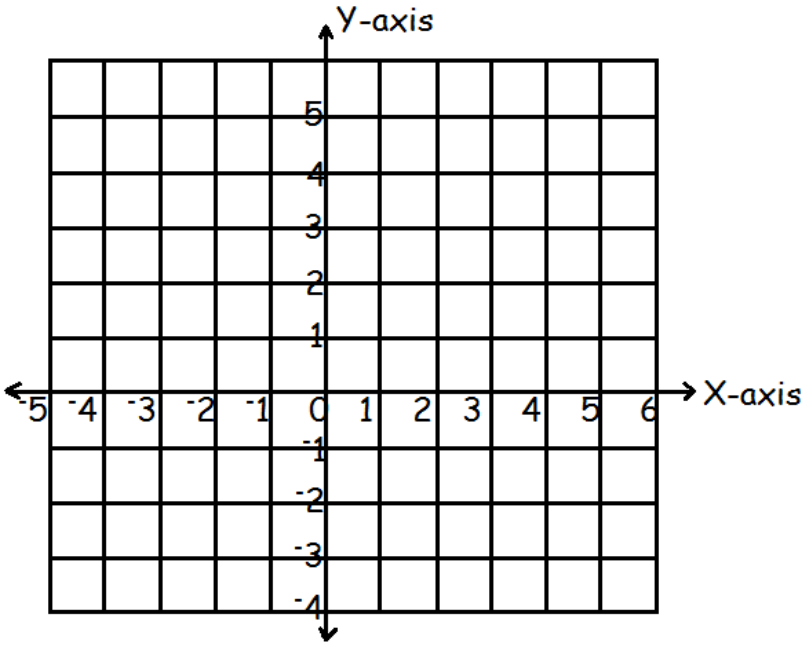
c) How many candidates were in the whole class? (2mks)

22. In the figure below PQ and SU are parallel lines. Angle PQR = 60^0 and angle RPQ = 60^0 and angle RPQ = 20^0. Use it to answer the questions below:

Find the size of angle b and c in degrees.



23(a) Plot the following points on the grid below: A($^{-}$1, 4), B($^{+}$5, $^{+}$4), C($^{+}$5, $^{+}$1) and D($^{-}$1, $^{+}$1



b) Join the points A to B, B to C, C to D, and D to A and work out the area of the figure formed. (2mks)

24(a) Work out: $1\frac{1}{2}\ x\frac{1}{3}\ \div\frac{1}{4}$ (2mks)

b) Work out: $\frac{0.24 + 0.66}{0.3 \times 0.3}$ (3mks)

25(a) Solve for x: (3x – 4) – (x + 6) = 0.
(2mks)

b) Ssentamu is three times as old as his son Kangave. In 5 years time their total age will be 46 years. How old is his son now?
(3mks)

26. $\frac{1}{3}$ of the fruits in a basket are oranges, $\frac{2}{5}$ of the remainder are passion fruits and the rest of the fruits are guavas. If there are 20 guavas in the basket, how many fruits were in the basket altogether?

27. Musimenta went shopping and bought the following items:

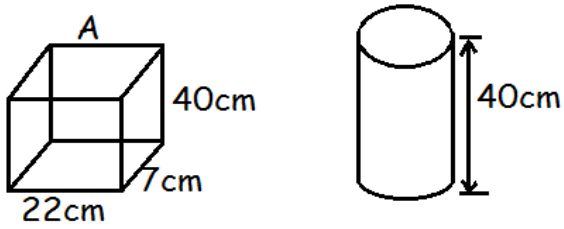
Items	Quantity	Unit cost	Total
Rice	3kg	Shs 3000Shs	

Sugar	$2\frac{1}{2}$ kgShs		Shs 5000
Paraffin	litres	Shs 3600	Shs 5400
Total			Shs

a) Complete the table above.
(4mks)

b) If she used 2000/= for transport to and from the market, calculate her total expenditure.
(2mks)

28. Two petrol tanks A and B can hold the same amount of petrol when filled up completely. (a) Find the amount of petrol tank A can hold in litres?
(2mks)



b) Find the diameter of tank B.
(3mks)

29. The table below shows the scores of the pupils in a Mathematical test.

Scores	4	5	6		9
No. of pupils	4		13	8	
Total marks	16	45		56	45

a) Complete the table above.
(4mks)

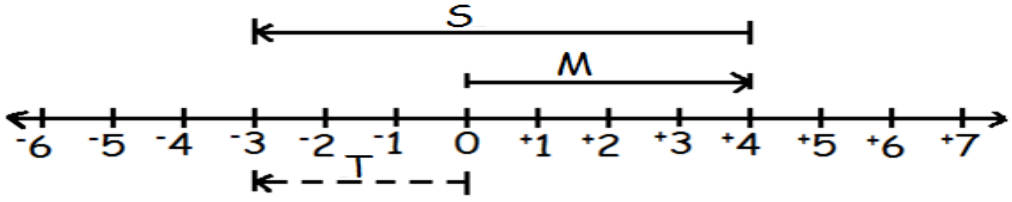
b) Find the range of the scores.
(1mk)

30. A motorist drove at a steady speed of 90km/hr for 1 hour 30 minutes from A to town B. H were turned at an average speed of 45km/hr.

a) How far is town A? (2mks)

b) Work out his average speed for the whole journey.
(3mks)

31. Use the number line to answer the questions below.



a) Find the integers shown by the arrows:
(3mks)

i) S = _____ ii) M = _____

iii) T = _____

b) Write a Mathematical statement represented by the above arrows on the diagram.
(2mks)

32. Mugole left town K and drove eastwards to town B a distance of 36km. he then drove northwards from town B to village P a distance of 48km, and returned directly from P to town K.

a) Using a scale of 1cm to represent 6km, draw an accurate diagram to show Mugole's journey.
(3mks)

b) Find the shortest distance from town K to village P in km.
(2mks)

********GOD BLESS********