

ST.VIANNEY JUNIOR SCHOOL-GAYAZA

MID TERM II EXAMINATIONS - 2023

MATHEMATICS

Time Allowed: 2hours 30 minutes

Name:

Read the following instructions carefully:

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

| EXAMINERS' USE ONLY | |
|---------------------|--|
| SECTION A | |
| SECTION B | |
| TOTAL | |

TURN OVER

SECTION A(40 marks)

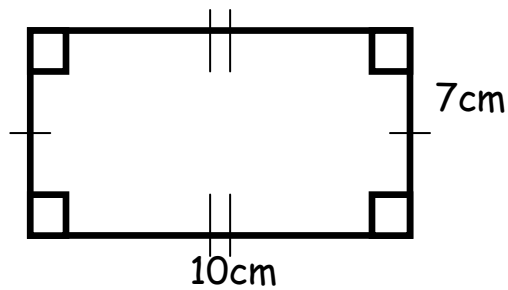
Answer all the questions in this section.

Questions 1-20 carry 2 marks each.

1. Work out; $473 + 312$.
2. Write 27,040 in words.
3. Circle all the even numbers in the list below.
4, 5, 6, 7, 9, 11.
4. Set $A \{m, k, l\}$. How many subsets are in set A ?
5. Using a protractor, a ruler and a pencil, draw an angle of 90° .
6. Given that $m = 5$ and $n=3$, find the value of mn .
7. Solve $3y = 12$

8. Find the Lowest Common Multiple (L.C.M) of 18 and 30.

9. Find the area of the figure below.



10. Find the range of the following numbers. 4, 7, 8, 5

11. Write 15 in Roman Numerals.

12. Given that  represents 10 oranges. How many oranges are represented by    .

13. Which number has been expanded to give $30,000 + 500 + 7$.

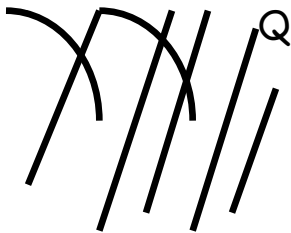
14. Simplify; $\frac{3}{8} + \frac{1}{8}$

15. What are the next 2 numbers in the sequence?

1, 3, 6, 10, 15, _____, _____.

16. What is the value of 8 in 478?

17. In the diagram below, name the shaded region.



18. Kabatta drove a car steadily at a speed of 72km/hr for 3 hours.
Calculate the distance he covered.

19. Express 201_{five} to a decimal system.

20. The radius of a circle is 10cm, calculate its diameter.

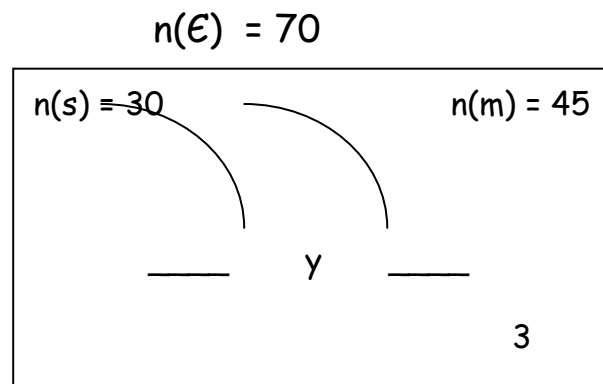
SECTION B (60 MARKS)

Answer all the questions in this section.

Marks for each section are indicated in the brackets.

21. In a class party of 70 pupils, two types of drinks were served. Soda (S) and mineral water (M), 30 took soda, 45 took mineral water and y took both and 3 took neither of the two.

- a. Use the information given above to complete the Venn diagram below. (2 marks)



- b. How many pupils took both drinks? 3marks

22. The list below shows prices of different items in a certain shop.

2kg of sugar costs sh. 6,800

500g of posho costs sh. 1,600

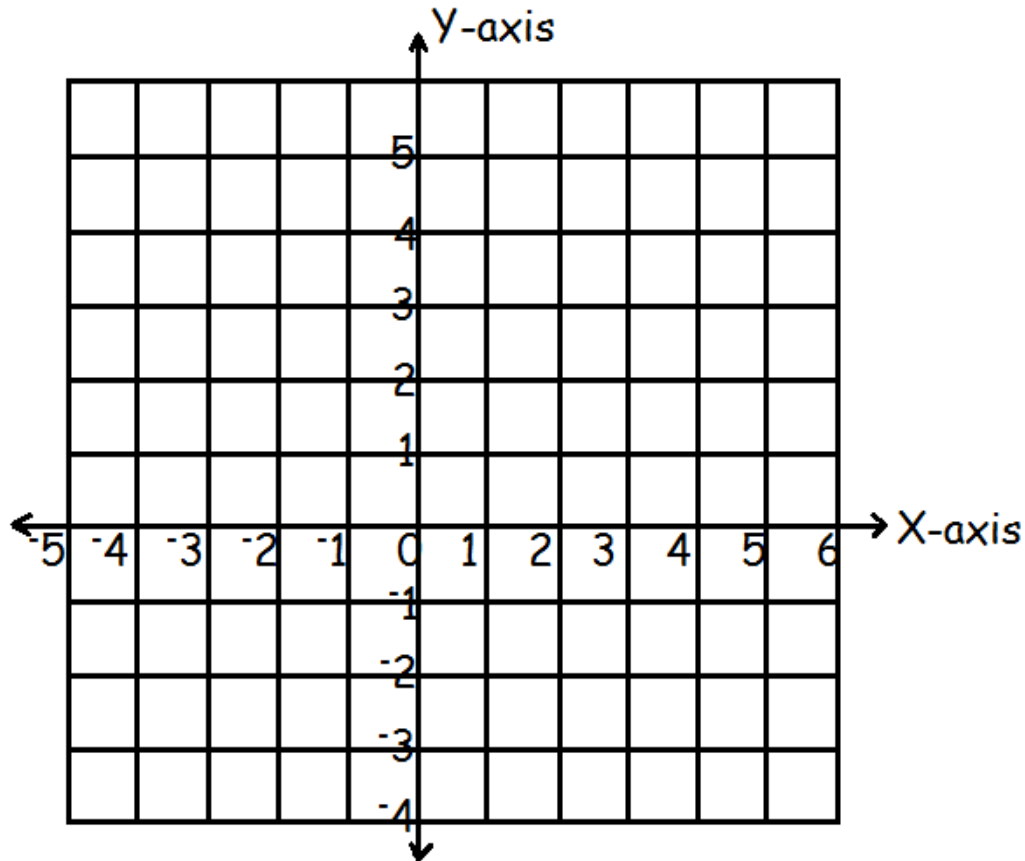
1 kg of beans costs sh. 3,000

3 bars of soap cost sh.10,500.

a. How much money will Mariam pay for all the items? 3marks

b. How much money will Kakooza pay for 3kg of sugar.(2 marks)

23. Plot A (2,3) B(5,4) C(-2, 4) D(2,4) and E(4,4) on the grid below.
(5 marks)



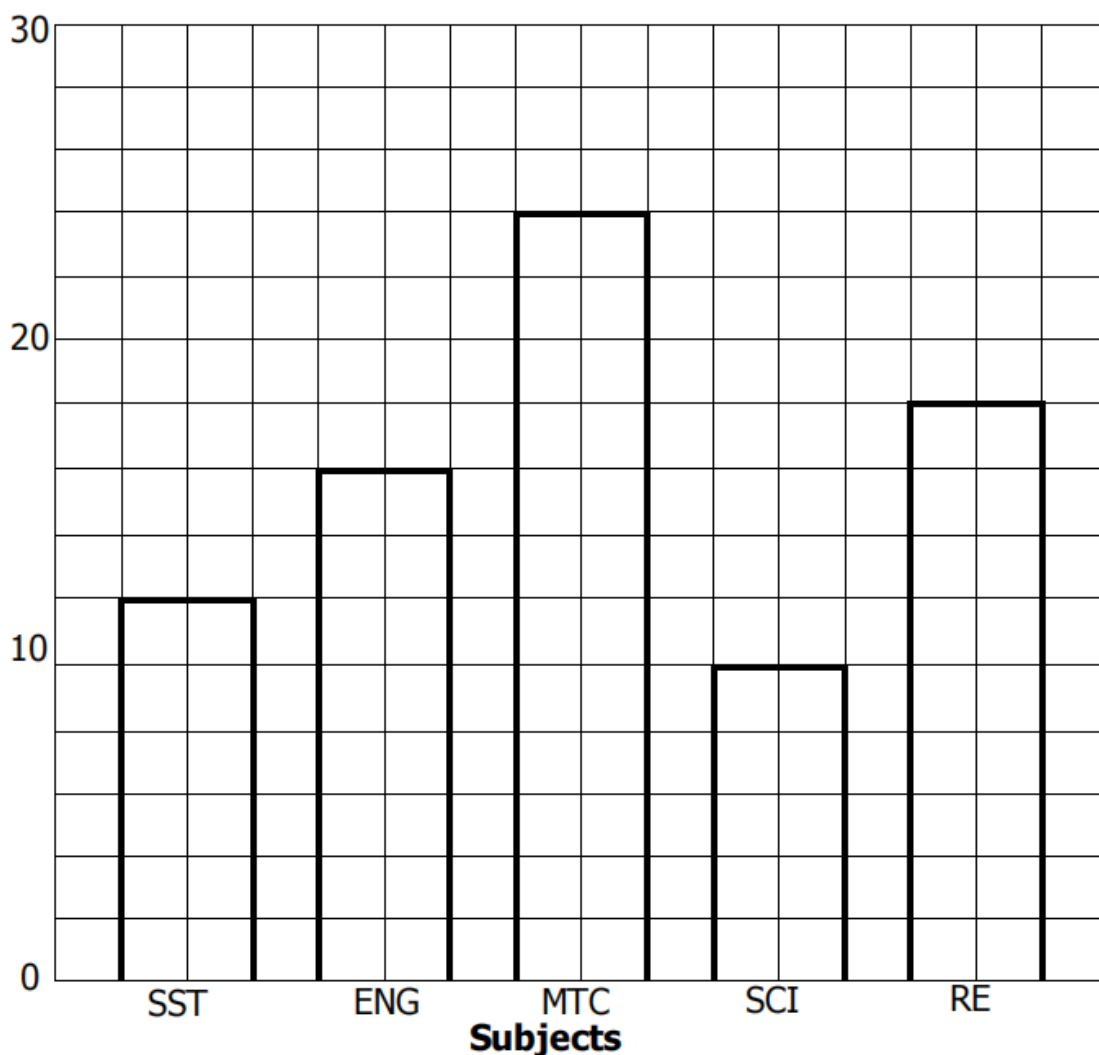
24. In a school of 240 pupils, the fraction of boys is $\frac{1}{5}$ and the rest are girls.

a. Find the fraction of girls in the school. (1 mark)

b. How many girls are there? (2 marks)

c. How many more girls are there than boys? (2marks)

25. The bar graph below shows the number of pupils in a class and their best liked subjects. Study the graph and use it to answer the questions that follow.



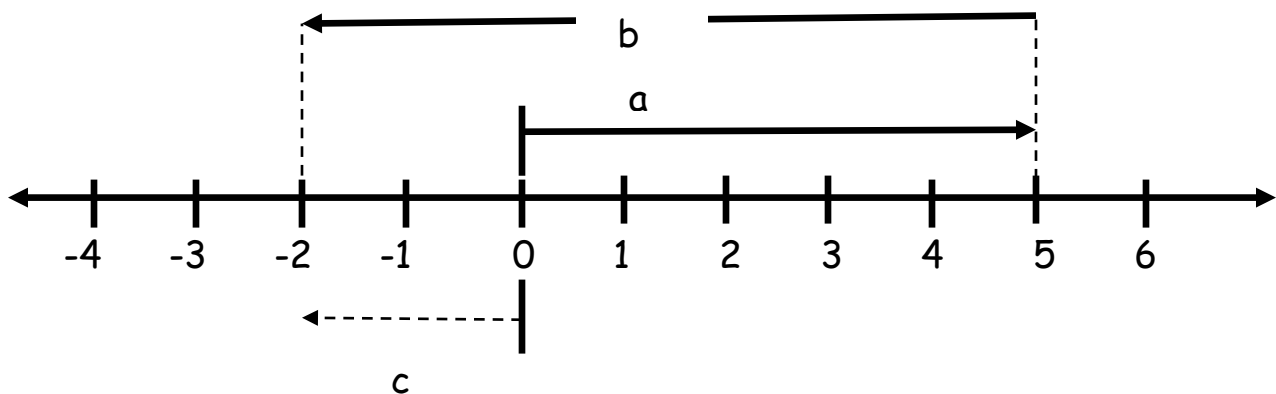
a. Which subject is liked by fewer pupils? (2marks)

b. How many pupils liked mathematics? (2marks)

c. Calculate the total number of pupils in the class. (2marks)

26. In the space below, construct an equilateral triangle of side 6cm. (4marks)

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



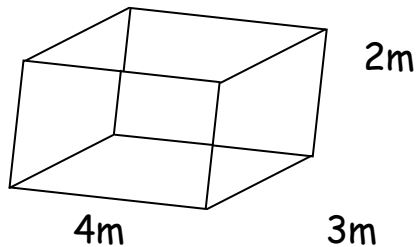
a. Name the integers for;

a _____ (1 mark)

b _____ (1 mark)

b. Write the mathematical statement shown on the number line above.(2 marks)

28. Study the shape below and answer the questions that follow.



a) Name the figure

_____ (1 mark)

b) Find the number of vertices. (1 mark)

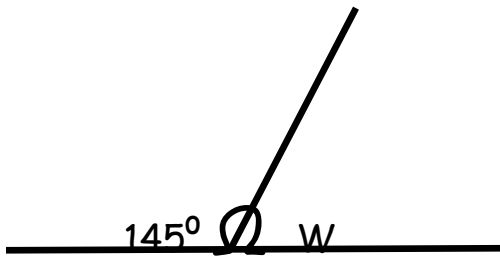
c) Calculate the volume of the figure. (3marks)

29. Lincoln is 9 years older than Farhaat. If Farhaat is 23 years old,

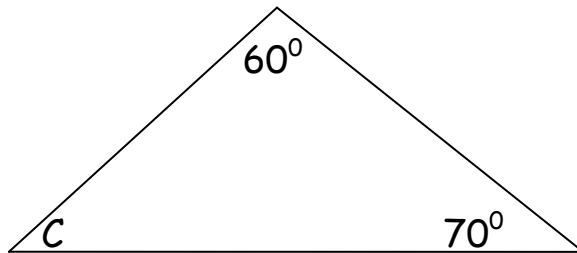
a. How old is Lincoln. (2marks)

b. Find their total age. (3 marks)

30. a) Work out the value of w in degrees.



b) Calculate the value of C in degrees.(3 marks)



31. The forest officer Kitgum planted the following number of trees in 9 different swamps.

35, 45, 10, 30, 15, 35, 12, 35, 53.

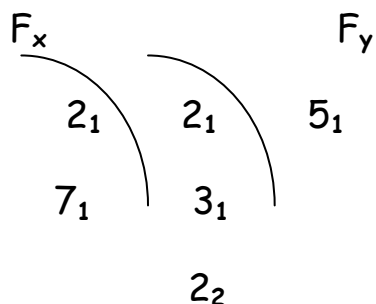
a. What is the mode? (1mark)

b. Find the median of the number of trees. (2marks)

c. Work out the range. (1 mark)

d. Calculate the mean. (2 marks)

32. The Venn diagram below shows prime factorization of two numbers represented by x and y .



a. Find the value of

i. X (1mark)

ii. Y (1mark)

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

END