



GLOBAL VIEW PREPARATORY SCHOOL
MID TERM THREE EXAMINATIONS 2023
PRIMARY SIX (6) MATHEMATICS

NAME:

SCHOOL:

STREAM:

SIGN:

Read the following instructions carefully:

1. This paper has **two** sections: **A** and **B**.
Section A has 20 questions and Section B has 12 questions
2. Answer all Questions. All the working for both Section A and B must be shown in the spaces provided.
3. All working must be done using a **blue** or **black** ball point pen or ink. Any work done in pencils other than graphs and diagrams will not be marked
4. **No calculators** are allowed in examination room.
5. Unnecessary changes in your work may lead to **loss** of marks.
6. Any handwriting that cannot easily be read may lead to **loss** of marks.
7. Do not fill anything in the table indicated:
"For Examiners' Use Only."

FOR EXAMINERS'
USE ONLY

Qn. No.	Marks	EXR'S NO.
1-5		
6-10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

SECTION A (40 marks)

1. Workout: 32×3
2. Write 2023 in words.
3. Workout: $2 + 3 = \underline{\hspace{2cm}}$ (mod 5). Using clock arithmetic (dial).
4. Find the next number in the sequence.
2, 5, 7, 10, 12, $\underline{\hspace{2cm}}$
5. Find the value of n in the equation.
 $7n + 2 = 23$
6. If set N has 3 elements, workout the number of subsets in set N .
7. Find the number that has been expanded below.
 $(3 \times 10^2) + (5 \times 10^{-2})$

8. The profit on a shirt sold at sh. 7,900 was sh. 2,100. Calculate the cost price of the shirt.

9. Write 23 45 hours in the 12 hour clock.

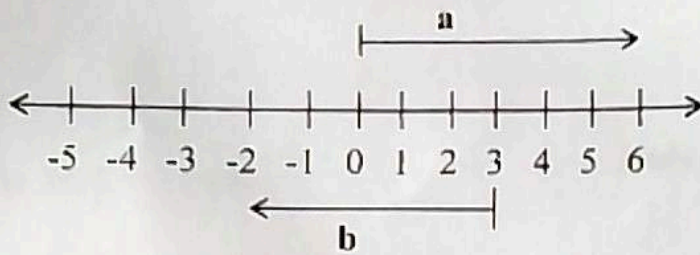
10. Workout: $\frac{1}{3} + \frac{1}{2}$

11. Given that $a = 3$ and $b = 2$. Find the value of ab .

12. The LCM of two numbers is 72 and their GCF is 6. If one of the number is 24. Find the second number.

13. 3 men can build a house in 20 days. How many men can do the same work at the same rate in 12 days?

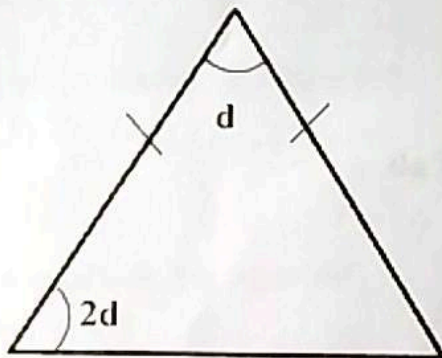
14. Write the integers represented by letters **a** and **b** on the number line.



a = _____

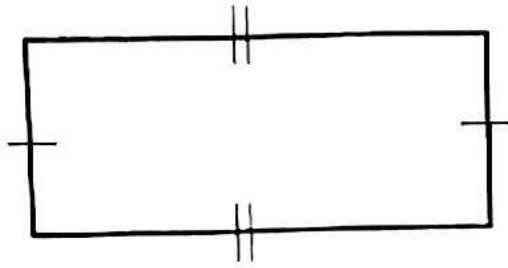
b = _____

15. In the triangle below, find the value of **d** in degrees.

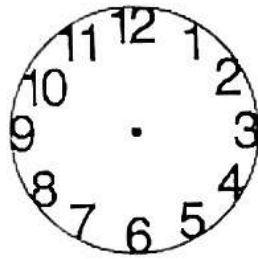


16. Using a ruler, a pencil and a pair of compasses only, construct an angle of 90° .

17. Indicate the line of folding symmetry on the rectangle below.



18. Show the time "Half past six O'clock" on the clock face below.



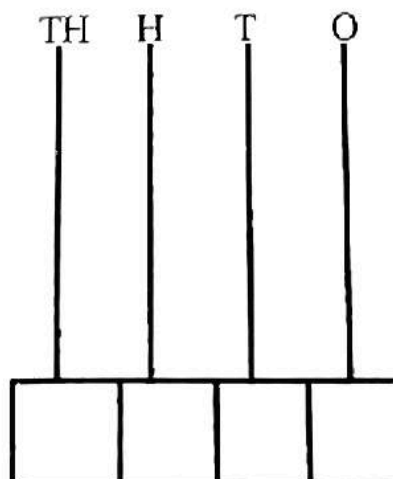
19. Without dividing, show that 50,070 is divisible by 3.

20. Write the number whose scientific notation is 9.85×10^3 .

SECTION B (60 marks)

21.a). Draw beads to show the number 4502 on the abacus below.

(2 marks)



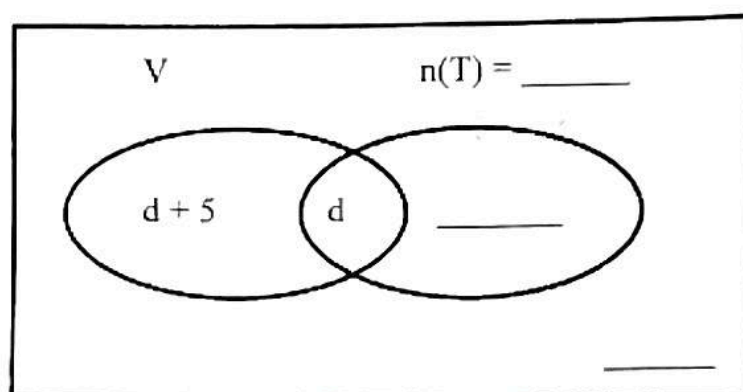
(3 marks)

b). Find the sum of the values of 3 and 7 in the number 3,678.

22. In a class, 31 pupils play tennis (T) and $(d + 5)$ play volley ball (V) only. d pupils play both games whereas 3 play neither of the two games.

(3 marks)

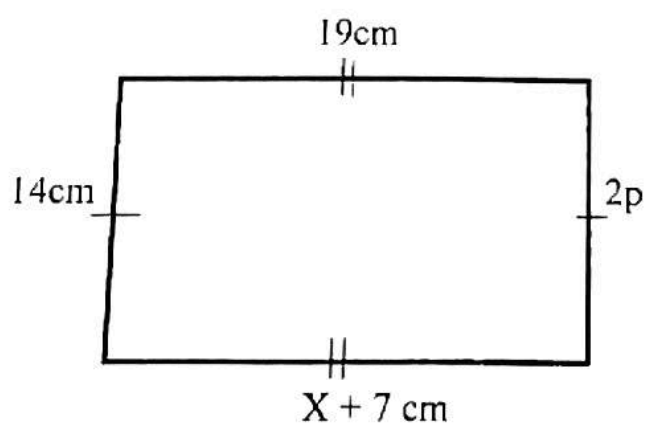
a). Use the above information to complete the venn diagram below.



b). If 27 pupils play volley ball altogether, Find the value of d .

(2 marks)

23. ABCD below is a rectangle. Use it to answer questions that follow.



a). Find the value of;

(1 mark@)

i). X

ii). p

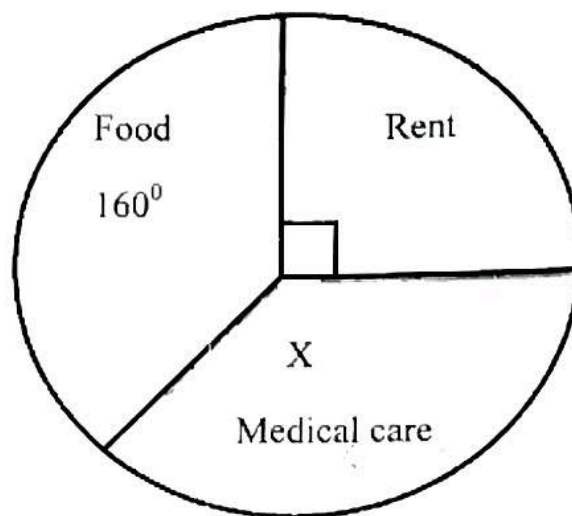
b). Calculate the area of the rectangle.

(4 marks)

24.a). Using a pair of compasses, a ruler and a sharp pencil, construct an equilateral triangle in a circle of radius 4cm.

(5 marks)

25. a). The pie chart below shows Mr. Opio spends his monthly salary of sh. 720,000. Use it to answer questions that follow.



a). Find the value of angle marked with letter X.

(2 marks)

b). How much does he spend on;

(2 marks@)

i). rent

ii). Food

26. In a class of 240 pupils, $\frac{1}{4}$ of them are 9 years, $\frac{1}{3}$ are 10 years and $\frac{5}{12}$ are above 12 years.

a). How many pupils are 10 years old? (2 marks)

b). How many pupils are below 10 years? (2 marks)

c). What is the difference between the number of pupils who are above 12 years and the pupils who are 10 years? (2 marks)

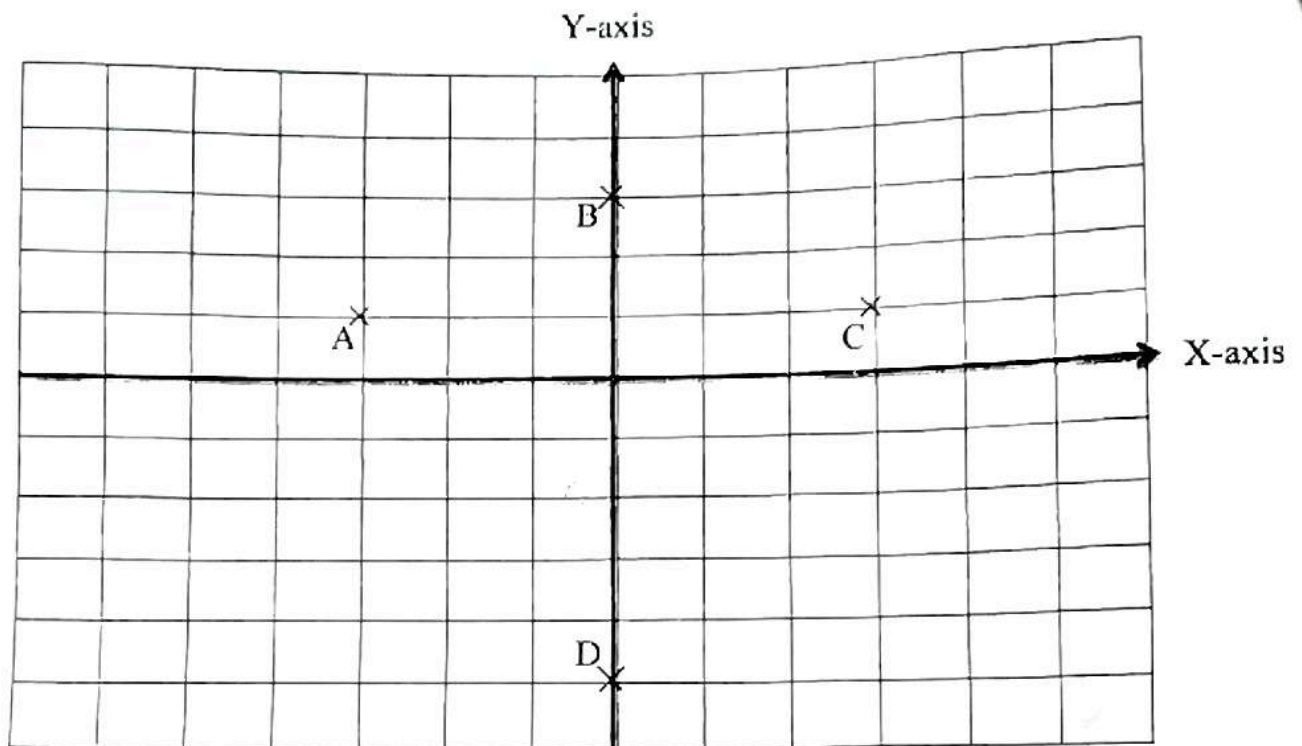
27. Given that $X = Y = Z = 6$. Workout the value of; (2 marks@)

a). $3X - Z$

b). $4(X + Y)$

c). Workout $\frac{1}{3}X \frac{1}{2}$ using a diagram. (2 marks)

28 Use the graph below to answer the questions that follow.



- a). Join points A to B, B to C, C to D and D to A. (2 marks)
- b). Name the shape formed in 28(a) above. (1 mark)
- c). How many lines of folding symmetry has the above shape. (1 mark)

29. Betty is 3 years older than Ruto. The sum of their ages is 19 years. How old is each of them. (4 marks)

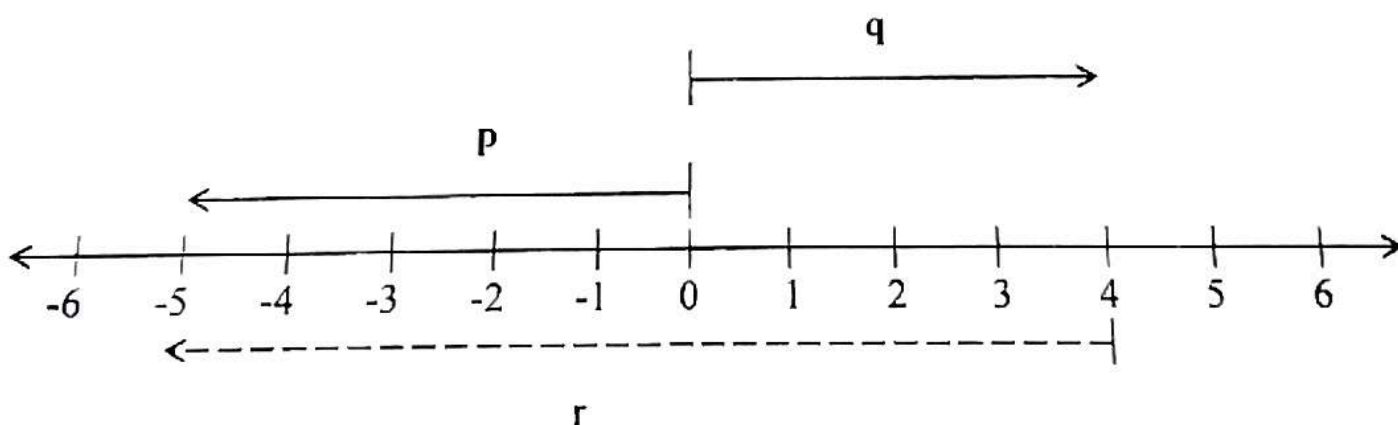
Mr. Katongole started digging his sugarcane garden in the afternoon time shown on the clock face below.



a). Write the time in 24 hour clock system. (2 marks)

b). Express 90km/h as m/s. (3 marks)

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



a). Write the integers represented by; (1mark)

i). **p**

ii). q

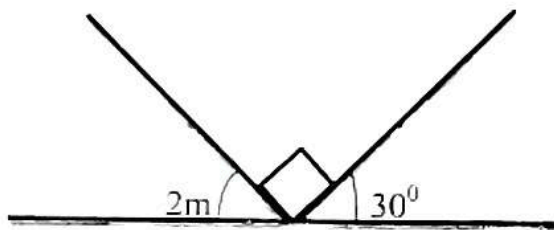
b). Write the mathematical statement for the arrows above.

(2 marks)

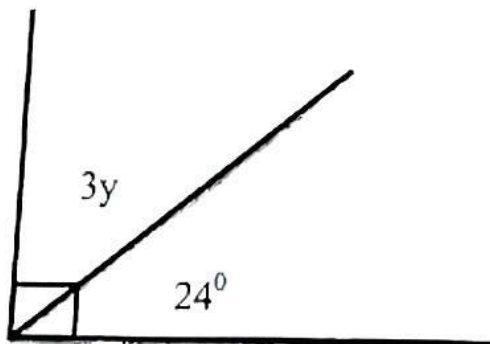
32. Find the value of the unknown angle.

(2 marks@)

a).



b).



END.