KABOJJA JUNIOR SCHOOL
MID – TERM EXAMS I 2024
P.6 MATHEMATICS
TIME ALLOWED: 2HRS 30 MINUTES

NAME: ………………………………………………………………………………………..

DISTRICT: …………………………………… **CLASS:** …………………………….

SECTION A

1. Work out: 4   3
   $\quad\quad$ x   2
   _____

2. Write 40004 in words.

3. Solve: P – 4 = 6

4. Complete the sequence,
   2, 3, 5, 7, _____

5. Add: HRS$\quad$MINS
   $\quad\quad$4$\quad\quad$38
   $\quad$+ 2$\quad\quad$43
   _____

6. Represent $^-6$ on a number line.
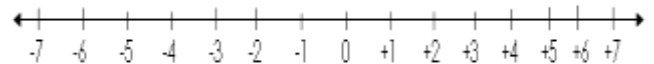
7. Using a ruler and a pair of compasses only, construct an angle of 65.

8. The table below shows the ages of different pupils in a group of 45 pupils.

Ages in years	10	11	12	13	14	15
Number of pupils	2	15	14	4	3	1

Find the modal age.

9. During elections at Little ways, four pupils who contested for welfare got the following votes.

Hope P.4	Atuhiire P.4	Shivan P.4	Shirat P.3
83	82	72	63

Find their average votes.

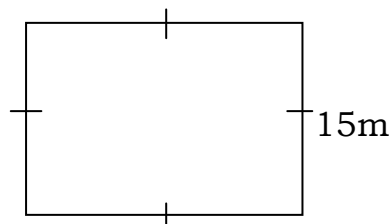10. My grandfather is 65 years old, express his age in Roman Numerals.

11. Study the Venn diagram.
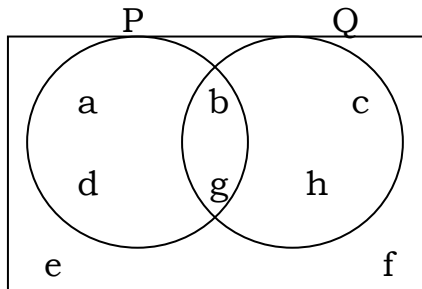
Find (P∩Q)

12. Work out the 6th prime number using the formula $\dfrac{n(n + 1)}{2}$

13. Work out the area of the figure below.

15m

14. Simplify: 2m + 4y + 27 – m

15. Draw tallies to represent 24.

16. Arrange $\frac{1}{2}$, $\frac{1}{6}$ and $\frac{1}{4}$ in descending order.

17. Multiply:
$$\begin{array}{ccc} 4 & 6 & 7 \\ \times & 2 & 3 \\ \hline \end{array}$$

18. Find the GCF (great common factor) of 9 and 12.

19. Expand 2463 using powers of ten.

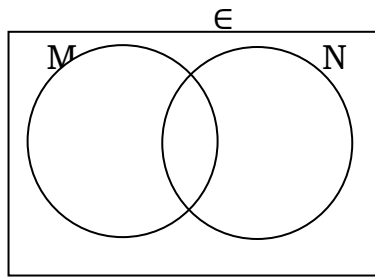20. If 2 loaves of bread cost sh. 7000, what is the cost of one loaf of bread?

SECTION B

21. If set M = { all factors of 12} and set N = {all factors of 15}
    i). List the members of set M   ii) List the members of set N.

b. Use a venn diagram to show the above sets.

c. Find n(M) Complement.

22. Given the number 2469.
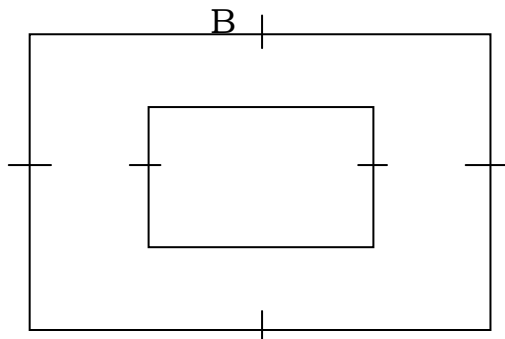   a. Write the number above in words.

    b. Work out the sum of the value of 4 and the value of 9 in the number above.

23. A car travelled at a speed of 60km/hr in 2hrs from town P to town R.
  a. What is the distance between town P and town R.

  b. If a car returned at a speed of 40km/hr from town R back to town P, how long did the car take to reach town P?

24. Study the diagram below.

a. Calculate the area of figure A.

b. Find the area of the figure B.

c. Reduce the area of the shaded part.

25. If b= 9 and d= 7, evaluate

i) a + b   ii) a- b

iii) ab   iv) b²

26. If set R= {1, 4, 9}
    a) Describe set R above.

    b) Find the number of subsets that can be formed in R.

27. In a test Mbowa obtained the following marks.
    a) Find the modal mark.   b) Find the range.

    c) Work out the mean mark.

28. Using a ruler, a sharp pencil and a pair of compasses only, Construct a regular hexagon of radius 5cm.

29. Rhoda went for the shopping and bought the following items. She went with a 50,000 shilling note.

    2 bars of soap at sh. 3500 per bar.

    3 loaves of bread at sh. 4000 per loaf

    2kg of meat at sh. 28,000

a. Work out her expenditure.

b. Find Rhoda's change.

30. Study the numberline below and answer the questions that follow.

a. Find integers represented by

b. Write the mathematical sentence below.

31. Arrange the decimals, 0.3, 0.5, 0.1 in ascending order.

b. Work out: $\frac{1}{2} + \frac{1}{4} + \frac{2}{5}$

32. During lock down, the COVID-19 cases were recorded as follows in a certain trading centre during a week.