



# KAUTHAR KIDS JUNIOR SCHOOL-MATUGGA EXAMINATIONS COMMITTEE

MID-TERM I EXAMINATION 2023

PRIMARY SIX MATHEMATICS

Time allowed:

2hours 30minutes

NAME \_\_\_\_\_

**Read and follow these instructions carefully:**

1. This paper has **two** sections **A** and **B**.
2. Section **A** has **20** questions (**40 marks**).
3. Section **B** has **12** questions (**60 marks**).
4. Answer **All** questions: **All** answers to both Sections **A** and **B** must be written in the Space provided.
5. **All** answers **must** be written using a blue or black ball point pen or ink but not pencil.
6. Any handwriting that cannot easily be read may lead to loss of marks.
7. Unnecessary alteration of work may lead to loss of marks.
8. Do not write anything in the box with **examiner's use only**

FOR EXAMINER'S USE ONLY		
Section	MARK	Int.
A		
B		
Total		

*Turn over*

## SECTION A

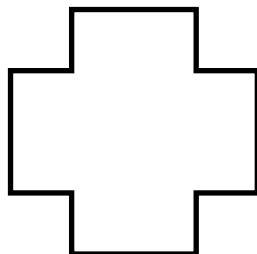
1. Work out:  $27 + 3$
2. Write 59 in Roman numerals.
3. Write 50,809 in words.
4. If  $K = 6$ ,  $B = 2$ , find the value of  $2K - 2B$ .

5. Given that set  $P = \{a, b, c, d, e\}$ ,  $Q = \{b, r, e, a, d\}$ . Find  $n(P \cup Q)$

6. Shanitah bought a goat at sh. 180,000 and later sold it to Martin at sh. 200,000. Calculate her profit.

7. Find the number of subsets in a set of 5 elements.

8. How many lines of folding symmetry have the figure below? (Show them)



9. Nankya is 20 years old while Hawa is 28 years old. Calculate the difference of their age.

10. Use a sharp pencil and a ruler to draw these geometrical figures

i) A rhombus



ii) A kite



11. Given that; a pen cost sh. 800. What is the cost of 7 pens of the same kind?

12. Find the place value and value of 6 in a number 56429

13. How many proper subsets are in a set of 6 elements?

14. A mathematics test was given to a P.6 class of 40 pupils and 25 pupils of them passed the test. What is the probability of the pupils who failed the test?

15. Find the next number in the sequence:  
5 , 4 , 9 , 8 , 13, \_\_\_\_\_ , \_\_\_\_\_

16. Expand 38,092 using exponents.

17. Find the area of rectangle whose length is 12cm and width of 8 cm.

18. Workout:  $\frac{3}{4} - \frac{1}{3}$

19. Express 3hour and 30 minutes into minutes.

20. Round off 7946 to the nearest hundreds

## SECTION B: 60 MARKS

Answer all questions in this section.

21. In a village of 45 farmers , 20 grow maize(M) , 25 grow beans(B) and  $y$  grow both millet and beans. 3 farmers grow neither of the two foods.

a) Draw and complete a venn diagram showing the above data.

b) Find the value of  $y$ .

c) What is the probability of farmers who grow only one type of crop?

22. Bobi wine scored the following marks in five tests: 40, 70, 60, 40, and 30.

a) Find the modal mark.

b) Find the median.

(c) Calculate the mean mark.

23. Given that:  $a = 5$ ,  $b = 4$ ,  $c = 2$ .

(a) Find the value of;

(i)  $abc$

(ii)  $3b + ab - ac$



(iii)  $2ab - 3c$

24. Using digits 3,8,5 and 2. Form the highest and lowest 4 digits numerals

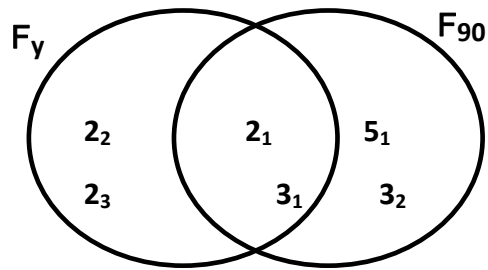
b) Calculate the range of the highest and lowest numerals formed.

c) Work out the sum of the highest and lowest numerals formed.

25. Calculate and complete the table below.

Item	Quantity	Price	Amount
Meat	3 kg	Sh.5,000	Sh._____
Wheat	4kgs	Sh._____	Sh.20,000
Lato milk	_____kg	Sh.2500	Sh.15,000
Tea leaves	3 packets	Sh._____	Sh.4,500
Total expenditure			Sh._____

26. Study the Venn diagrams below and answer the questions that follow.



(a) Find the value of  $Y$ .

(b) Find the GCF of  $F_Y$  and  $F_{90}$ .

(c) Find the LCM of  $F_Y$  and  $F_{90}$ .

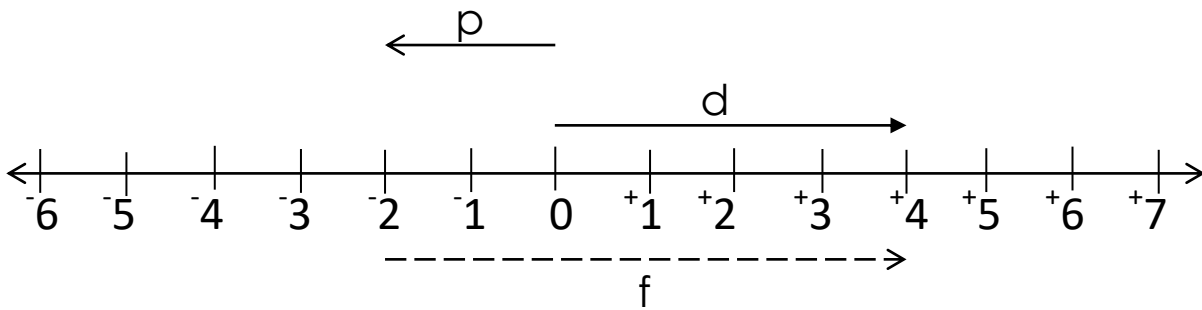
27. Using a ruler, a pencil and a protractor. construct the following angles:

a)  $90^{\circ}$

b)  $60^{\circ}$

c) Draw and measure line segment AB of 7cm.

28. Use the numberline below to answer the following questions



a) Name the integers represented by arrows

i) p \_\_\_\_\_

ii) d \_\_\_\_\_

iii) f \_\_\_\_\_

b) Write a mathematical sentence shown on a numberline above

29. In a class of 75 pupils, 45 are girls and the rest are boys.

(a) How many boys are in the school?

(b) Write the number of girls in words.

30. What number has been expanded to give:

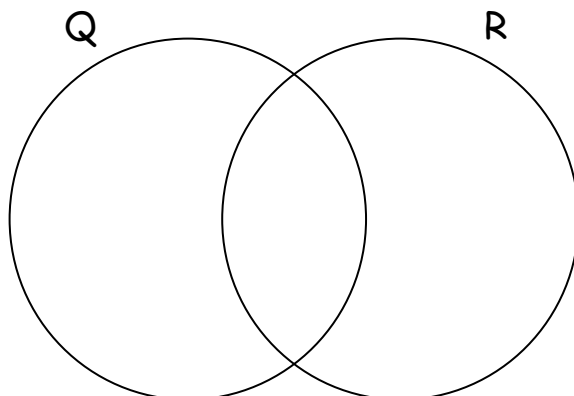
i)  $(7 \times 10^3) + (0 \times 10^1) + (3 \times 10^0)$

ii)  $(8 \times 100) + (4 \times 10000) + (2 \times 1) + (9 \times 10)$

31. If  $Q = \{ b, e, a, n, s \}$

$R = \{ g, r, a, p, e \}$

(a) Represent the above information on the Venn diagram.



(b) Find:  $(Q \cap R)$

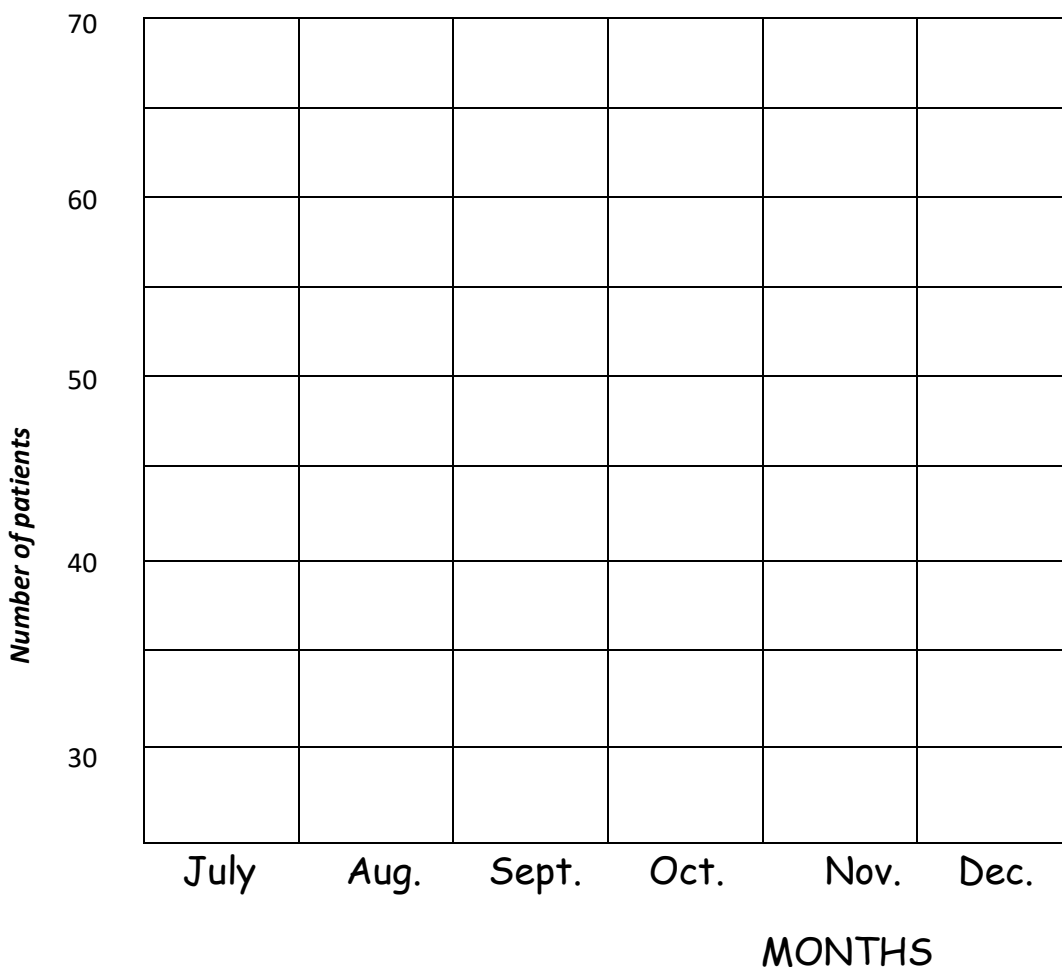
(c) Find the elements of  $(Q - R)$

(d) Find:  $n(Q \cup R)$

32. The table below shows COVID-19 patients who reported at a certain hospital in the Last half of the year 2021. Study it and answer the questions that follow.

Months of the year	July	Aug	Sept	Oct	Nov	Dec
Number of patients	50	30	70	50	40	60

- (a) Draw a bar graph to represent the above information.



- (b) Find the average number of patients who reported at the hospital.