



# KAUTHAR KIDS JUNIOR SCHOOL-MATUGGA

## EXAMINATIONS COMMITTEE

MID-TERM I EXAMINATION 2023

PRIMARY SEVEN MATHEMATICS

Time allowed:

2hours 30minutes

CANDIDATE'S NAME \_\_\_\_\_

RANDOM NUMBER: \_\_\_\_\_

INDEX NUMBER:

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**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**

*Turn over*

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

## SECTION A

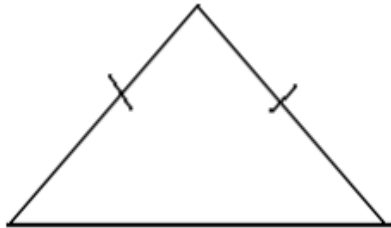
1. Divide  $27 \div 3$
2. Write 49 in Roman numerals.
3. Write 650,019 in words.
4. If  $a = 3$ ,  $b = 5$ , find the value of:  $ab - 2b$ .

5. Given that set  $P = \{0, 2, 4, 6\}$ ,  $Q = \{1, 2, 3, 5, 7\}$ . Find  $n(P \cup Q)$

6. Kasana bought a phone at sh. 58,000. She later sold it for sh. 65,000. Calculate her profit.

7. Change 2500 grams to kilograms.

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



9. Namata is 13 years old while Bbaale is 8 years old. Use tally marks to represent their ages in the table below:

Name	Age
Namata	
Bbaale	

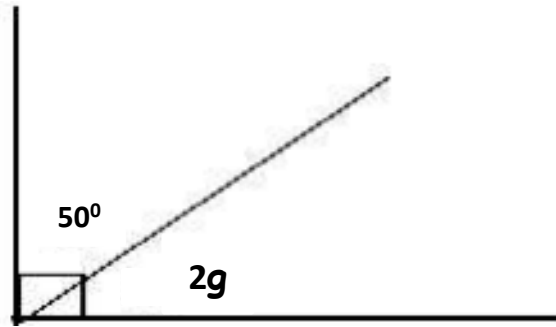
10. Construct an angle of  $120^\circ$  in the space below

11. Given that; 4 pens cost sh. 2000. What is the cost of 7 pens of the same kind?

12. Find the L.C.M of 18 and 24.

13. How many proper subsets are in a set of 6 elements?
14. A mathematics test was given to a P.7 class of 100 pupils. If 90 pupils passed the test, what is the probability of the pupils who failed the test?
15. Find the next number in the sequence:  
1 , 4 , 9 , 16 , 25 , \_\_\_\_\_ , \_\_\_\_\_
16. Expand 70834 in power form.

17. Find the value of  $g$ .



18. Work out  $\frac{3}{4}$  of 120,000.

19. If,  $a = 3$ ,  $b = 5$ , find the value of:  $ab + 2b$ .

20. Round off 7946 to the nearest hundreds

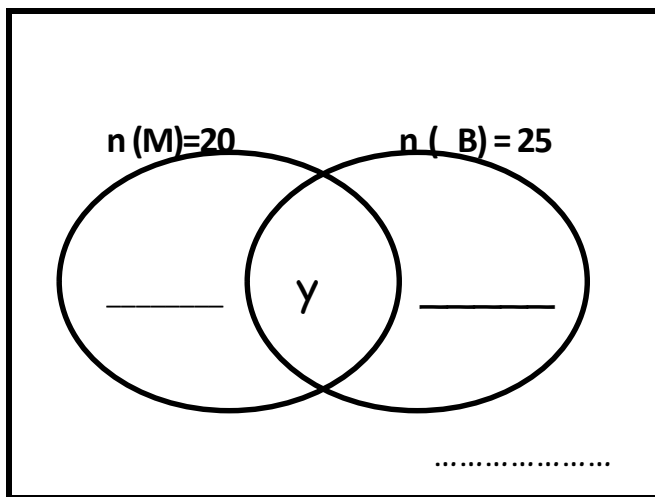
## SECTION B: 60 MARKS

Answer all questions in this section.

21. In a village of 49 farmers , 20 grow millet(M) , 25 grow beans(B) and  $y$  grow both millet and beans. 3 $y$  farmers grow neither of the two foods.

Use the above information to complete the venn diagram. (03marks)

$$n(\epsilon)=49$$



b) Find the value of  $y$ .

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

22. Muhammad 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 6,0,9 and 5. Form the highest and lowest 4 digits numerals

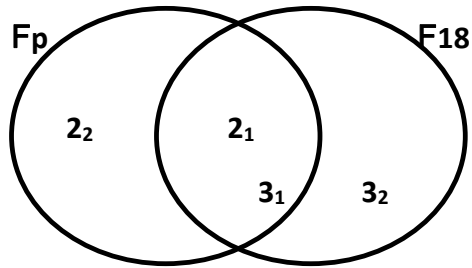
b) Calculate the range of the highest and lowest numerals formed.

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

25. Complete the table below.

Item	Quantity	Price	Amount
Sugar	$2\frac{1}{2}$ kg	Sh.8,000	Sh._____
Rice	4kgs	Sh._____	Sh.24,000
Beans	_____kg	Sh.2400	Sh.4800
Cooking oil	$3\frac{1}{2}$ litre	Sh._____	Sh.8,750
Total expenditure			Sh._____

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



- (a) Find the value of  $p$ .
- (b) Find the GCF of  $F_p$  and  $F_{18}$ .
- (c) Find the LCM of  $F_p$  and  $F_{18}$ .

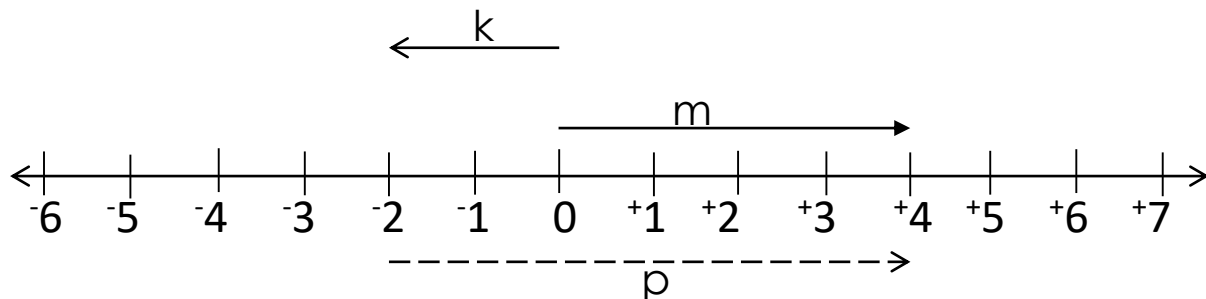
27. Using a ruler, a pencil and a protractor. construct the following angles:

- a)  $60^\circ$

b)  $45^\circ$

c) Draw and measure line segment AB of 8cm.

28. Use the numberline below to answer the following questions



a) Name the integers represented by arrows

i) k \_\_\_\_\_

ii) m \_\_\_\_\_

iii) p \_\_\_\_\_

b) Write a mathematical sentence shown on a numberline above

29. In a class of 120 pupils, 30 are girls and the rest are boys.

(a) How many boys are in the school?

(b) Express the number of boys in the whole class in Roman numerals.

30. What number has been expanded to give:

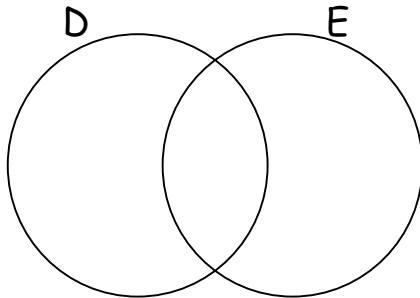
i)  $(9 \times 10^3) + (4 \times 10^1) + (6 \times 10^0)$

ii)  $(8 \times 1) + (2 \times 10000) + (8 \times 10) + (3 \times 100)$

31. If  $D = \{1, 2, 3, 4, 5, 6\}$

$E = \{1, 4, 9, 16, 25\}$

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



(b) Find:  $(D \cap E)$  (1 mark)

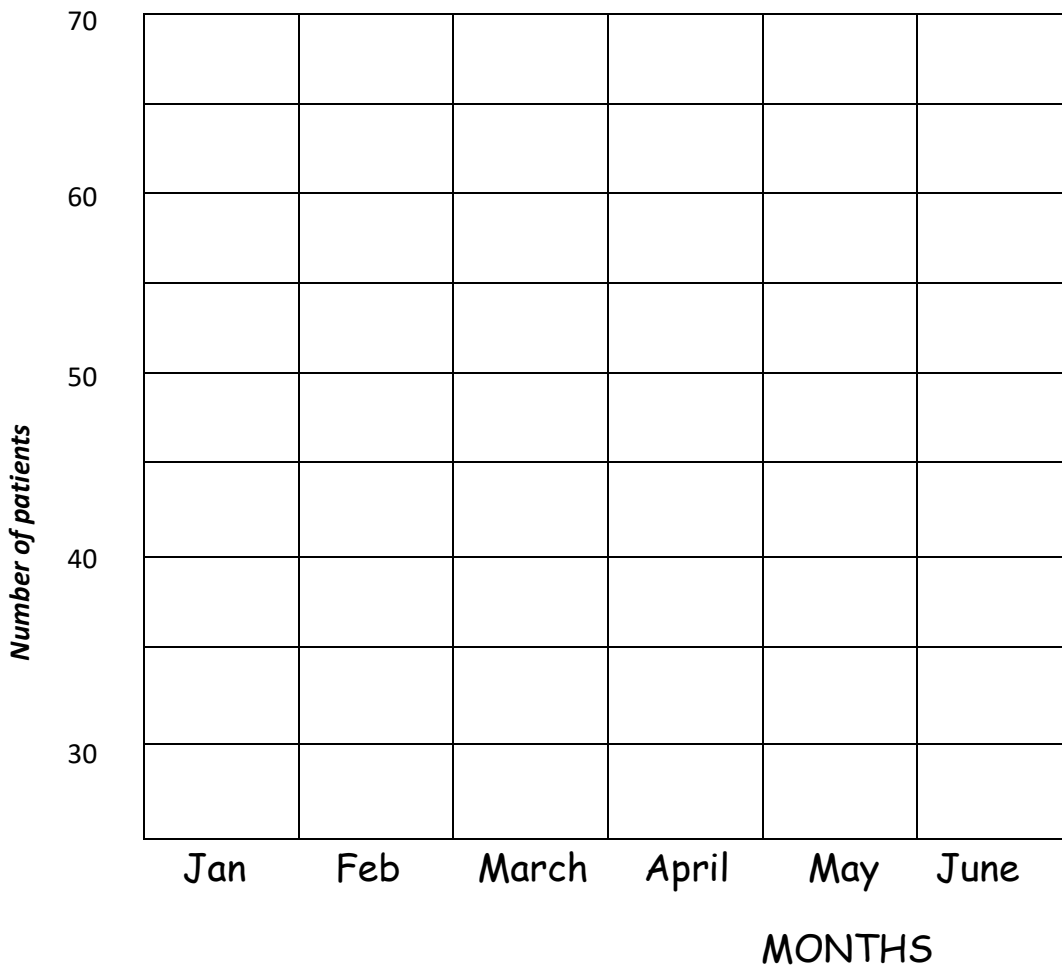
(c) Find:  $D'$  (1 mark)

(d) Find:  $n(D \cup E)$  (1 mark)

32. The table below shows malaria patients who reported at a certain hospital in the first half of the year. Study it and answer the questions that follow.

Months of the year	Jan	Feb	March	April	May	June
Number of patients	50	30	70	30	40	65

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



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

