



PEAK JUNIOR SCHOOL NAKABUGO

P.7 BEGINNING OF TERM I EXAMINATIONS

2025

MATHEMATICS SET 3

Time allowed: 2 hours 30 minutes

Candidate's name:

Read the following instructions carefully:

1. This paper has two sections A and B.
Section A has 20 questions and section B has 15 questions.

FOR EXAMINER'S USE ONLY

2. Answer all questions. All the Working must be shown in the spaces provided.
3. All working must be done using a blue or black ball point pen or ink.
4. Unnecessary changes in your work and handwriting may lead to loss of marks.

SECTIONS	MARKS	COMM.
SEC A		
SEC B		
TOTAL		

5. Do not fill anything in the table indicated "For examiners' use only".

Turn Over

SECTION A

Questions in this section carry 2 marks each

1. Share 8465 books among five schools.

2. Expand 3624 using exponents.

3. Simplify: $6m - 5n - 3m + 7n$

4. Name the set symbol below.

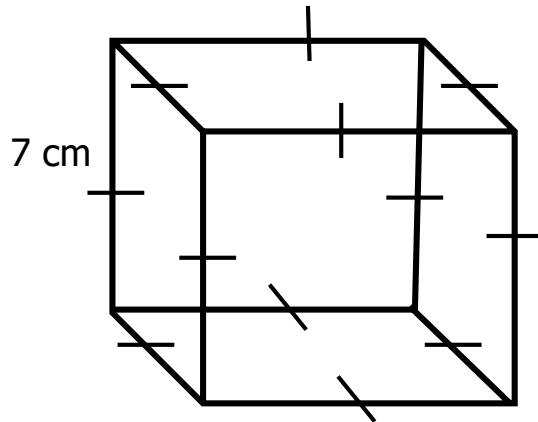


5. Solve for y if x is 6.
 $2y + 4 = 8 + 3x$

6. Calculate the mean of $2p - 1$, 5 , $p + 2$ and $p - 2$.
7. A forty minutes lesson ended at 9:20am. At what time did the lesson start?
8. Find the supplement of $(120^\circ - w)$.
9. Subtract 8 from 14.8
10. Simplify; $-4 + -6$

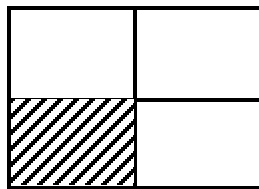
11. Workout; $6 - 3 \times 4 + 5^3$
12. The cost of 3 mathematical sets is sh. 21,000. Find the cost of 7 similar mathematical sets.
14. The lowest common multiple two numbers x and 12 is 36 and their greatest common factor is 6. Find the value of x .
15. Given that $M = \{e, m, f, g\}$ and $N = \{h, f, m, g\}$. Find $n(M - N)$
16. If $p = 3$ and $q = 2$. Find the value of $2pq$.

17. Calculate the volume of the figure below.



18. How many minutes are in $1\frac{1}{4}$ hours?

19. What percentage of the figure below is unshaded?



20. Find the next two numbers in the sequence below.

60, 56, 52, 48,

SECTION B

Marks for each question is indicated in bracket

21. (a) Using a ruler, a pair of compasses and a sharp pencil, construct a triangle ABC in which AB is 6cm, angle ABC = 120° and angle BAC = 30° . Drop a perpendicular line from C to meet AB at K. **(4 marks)**
- (b) Measure KC in cm. **(1 mark)**
22. (a) Find the sum of the first 20 counting numbers. **(2 marks)**
- (b) Find the smallest number of sweets that can be shared by 3, 4 or 6 pupils leaving 5 sweets as a remainder. **(3 marks)**

23. (a) Workout; $\frac{2}{3}$ of $\frac{3}{4} - \frac{1}{3}$ **(2 marks)**

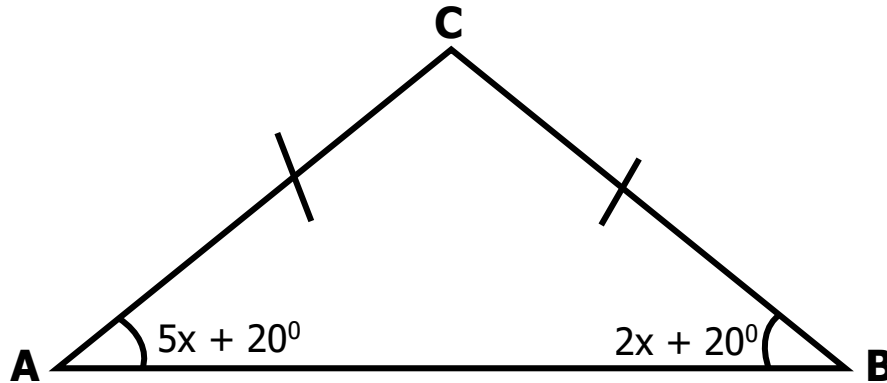
(b) Mary bought a cake and she ate $\frac{1}{3}$ in the morning, $\frac{5}{12}$ in the afternoon and the rest in the evening. Find the fraction of the cake she ate in the evening. **(3 marks)**

24. (a) A boy made 4 turns. Through what angle did he turn?

(b) Juma was facing in East and turned anticlockwise through an angle of 225° . Find his new direction.

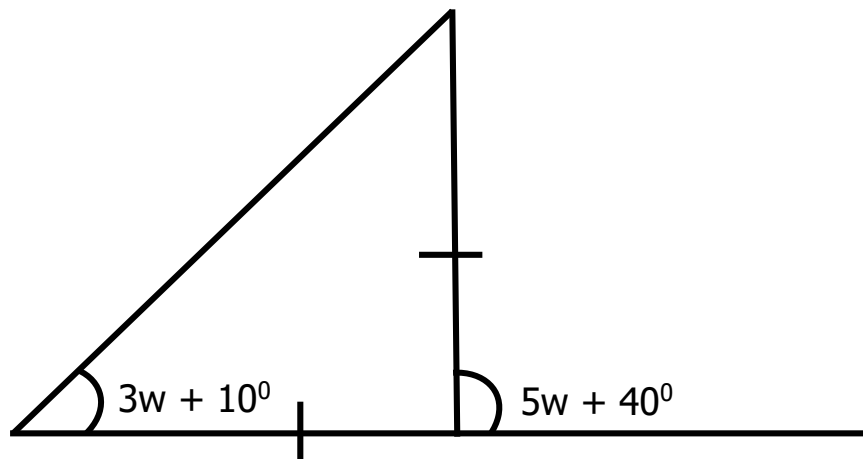
25. (a) In the diagram below, find angle ACB.

(3 marks)



(b) Find the value of w in degrees.

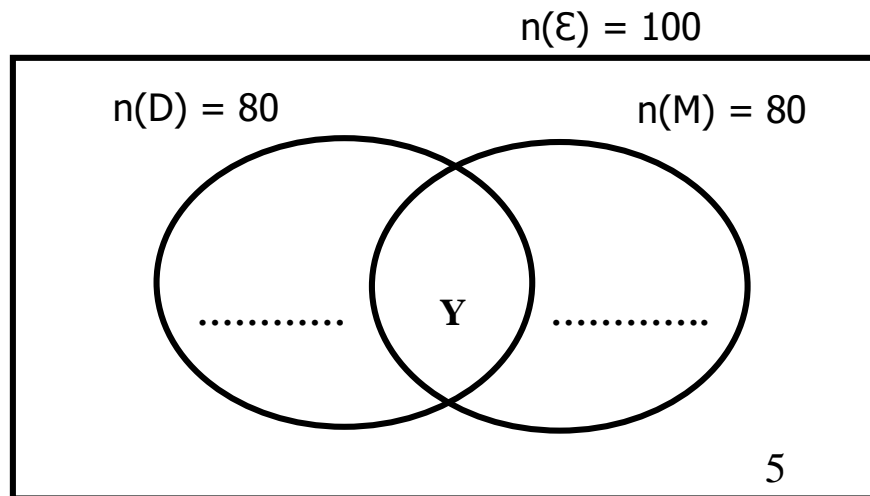
(2 marks)



26. In a class of 100 pupils, 80 pupils like music (M), 80 pupils also like drama (D), 5 like neither of the two activities.

a) Complete the venn diagram below completely.

(2 marks)



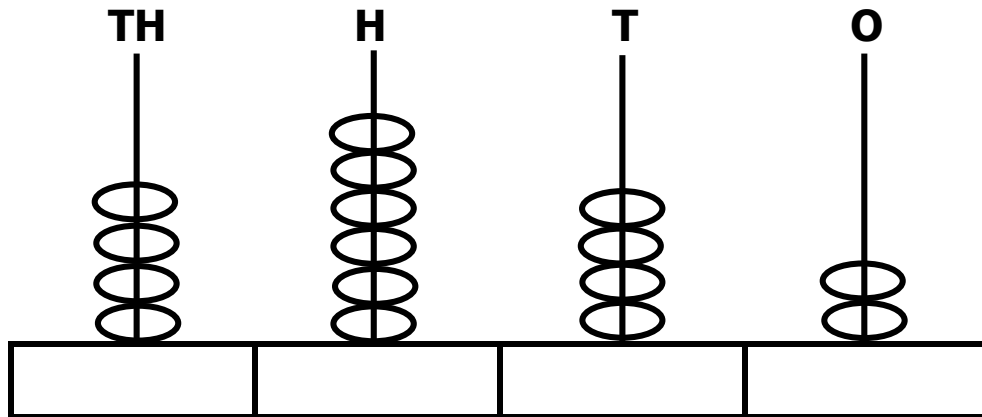
b) How many pupils like both drama and music?

(2 marks)

c) Find the number of pupils who like music only.

(1 mark)

27. (a) Write the number shown on the abacus below in expanded form using values. **(3 marks)**



- (b) Write in figures, 'sixty four thousand, nine hundred.' **(2 marks)**

28. (a) The cost of a pen and a book are in the ratio of 5 : 3 respectively.
If a pen costs sh. 21,000. What is the cost of a book? **(3 marks)**

- (b) In P.7 class, 45 out of 50 pupils like Mathematics and the rest like English. What percentage of the pupils like English? **(2 marks)**

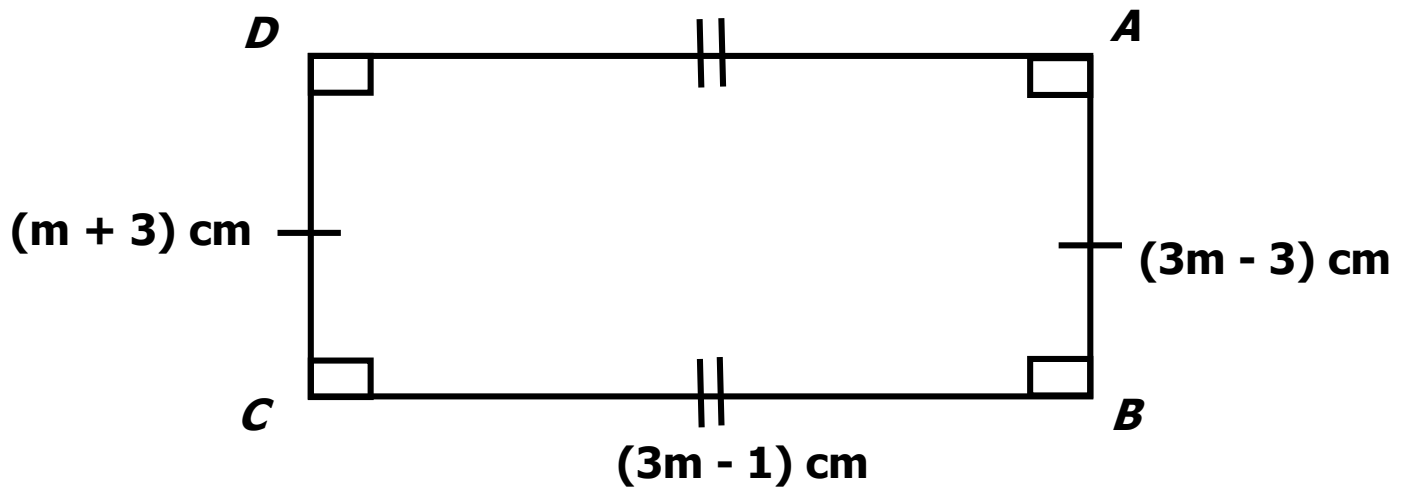
29. Gabriel went shopping and bought the following items.

- ❖ 2 loaves of bread at sh. 5,500 each.
- ❖ $\frac{1}{2}$ kg of meat at sh. 16,000 per kg.
- ❖ $\frac{1}{2}$ litre of cooking oil at sh. 4,000.
- ❖ 750 grammes of rice at sh. 4000 per kg.

a) How much money did Gabriel spend? **(4 marks)**

b) If he was given a change of sh. 2,000, how much did he go with? **(1 mark)**

30. Study the diagram below carefully and answer the questions that follow.



a) Find the value of m . **(2 marks)**

b) Calculate the area of the rectangle **$ABCD$** . **(3 marks)**

31. Below is a record of changes in temperature of $^{\circ}\text{F}$ on a particular day.

Time	7:00am	9:00am	11:00am	1:00pm	3:00pm	5:00pm
Temperature in $^{\circ}\text{F}$	70 ⁰	50 ⁰	65 ⁰	70 ⁰	75 ⁰	60 ⁰

a) Write down the modal temperature.

(1 mark)

b) Find the median temperature.

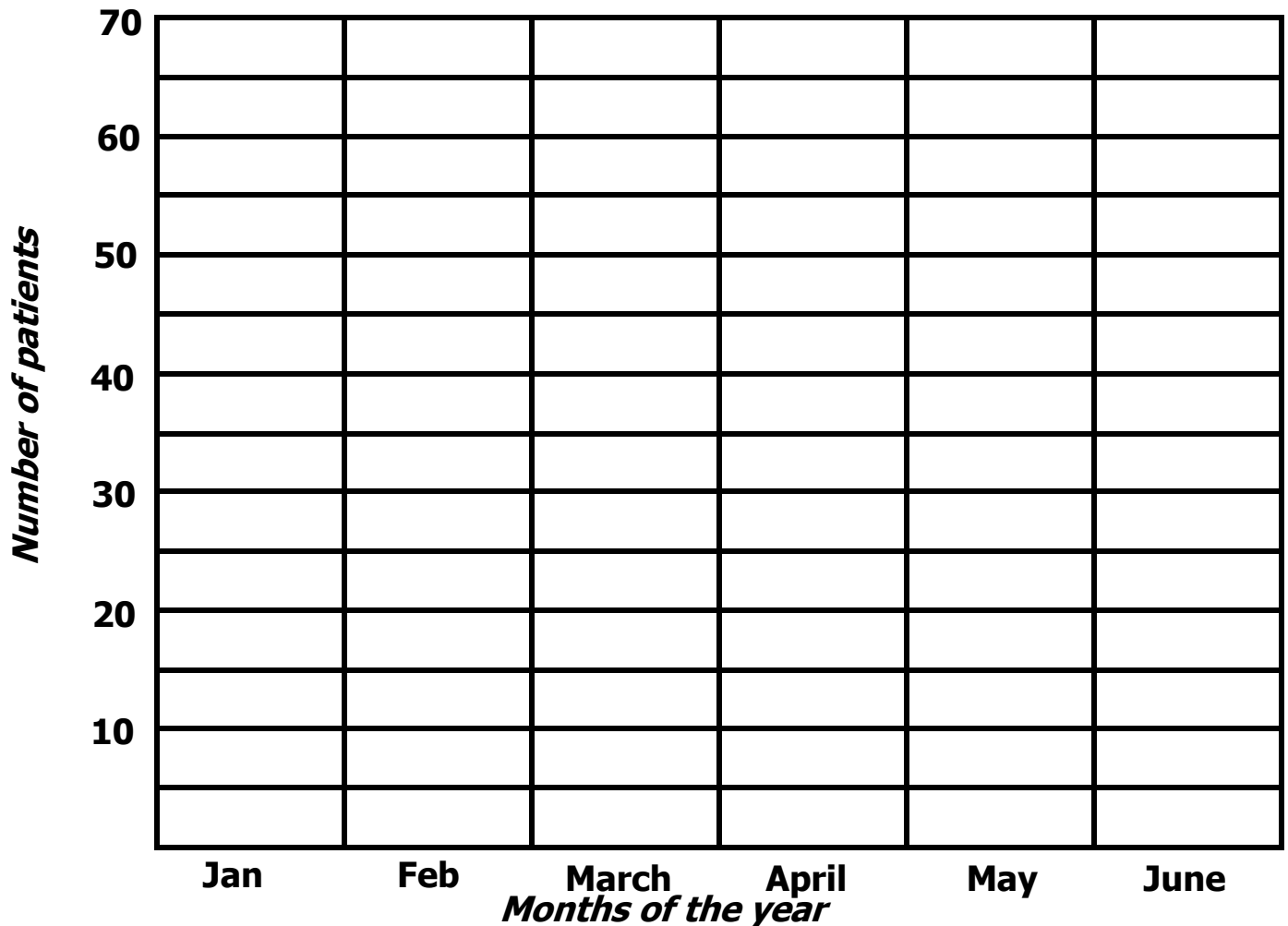
(2 marks)

c) Calculate the mean temperature.

(2 marks)

32. The table below shows number of patients recorded at Mulago Hospital in the half of a year.

Months of the year	Jan	Feb	March	April	May	June
Number of patients	50	30	25	30	40	65



- a) Represent the information above on the graph by shading. (**3 marks**)
- b) If each patient paid sh. 10,000. How much did the hospital collect in June? (**2 marks**)