



THE PRIME EXAMINATIONS 2023

PRIMARY FIVE BEGINNING OF TERM I

MATHEMATICS (*Abridged Curriculum*)

Time allocated 2 hours 30 minutes

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READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This paper has **two** sections: A and B. Sections A has 20 (40 Marks) questions and Section B has 12 questions. (60 Marks)
2. Answer **ALL** questions. All the working for both sections 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 pencil other than on graphs and diagrams will not be marked.
4. **No calculators** are allowed in the examination room.
5. Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
6. Do not fill anything in the table indicated

"FOR EXAMINERS' USE ONLY"

FOR EXAMINERS' USE ONLY		
QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

APPROVED

Consultant

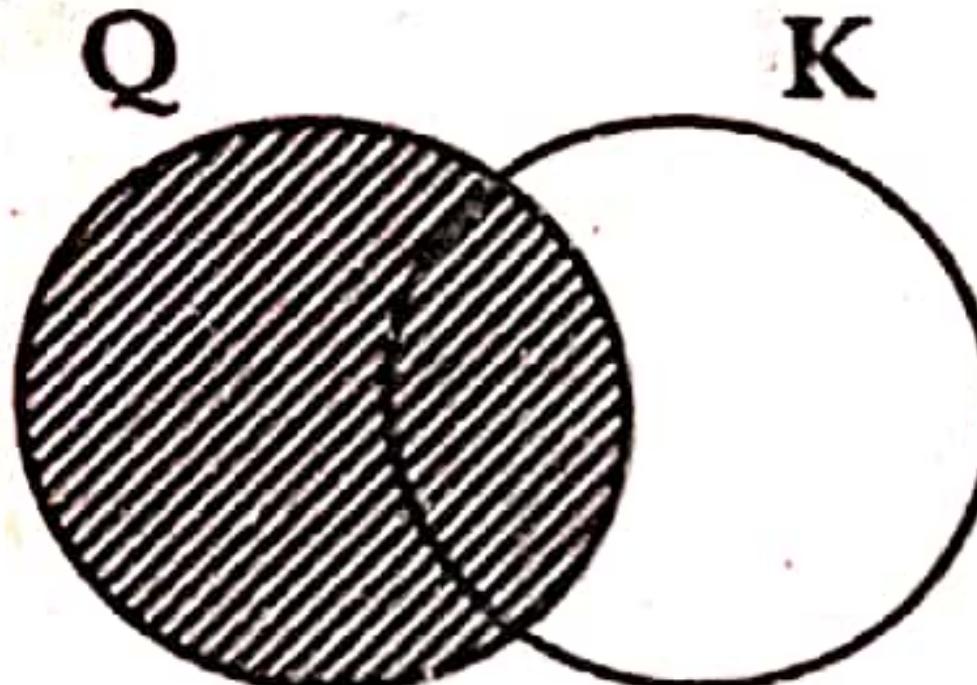
Mathematics Department (PEC)

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THE PRIME SCHEMING FRAME WORKS, PUPIL'S WORKBOOKS, LESSON COURSE BOOKS, HOLIDAY PACKAGES
LEARNING GAMES, REVISION BOOKS, PLE ANALYSIS REPORTS AND MANY MORE.

Turn Over

Section A (40 Marks)

1	Workout: 2×4 $\begin{array}{r} 2 \\ \times 2 \\ \hline \end{array}$	2	Write 54 in Roman Numerals.
3	Describe the unshaded region below. 	4	How many 500 shilling coins can be got from sh.6000?
5	Fill in the missing numbers in the sequence below. 17, 15, ___, 11, ___	6	Convert 70 metres to cm.
7	Find the missing number. $\frac{\square}{3} = 12$	8	Workout: Weeks Days $\begin{array}{r} 4 \\ +1 \\ \hline 5 \end{array}$
9	If  stands for 6 trees, how many trees are represented by  ?		
10	What is $\frac{2}{3}$ of 12 books?	11	Measure the length of the line segment MN. 

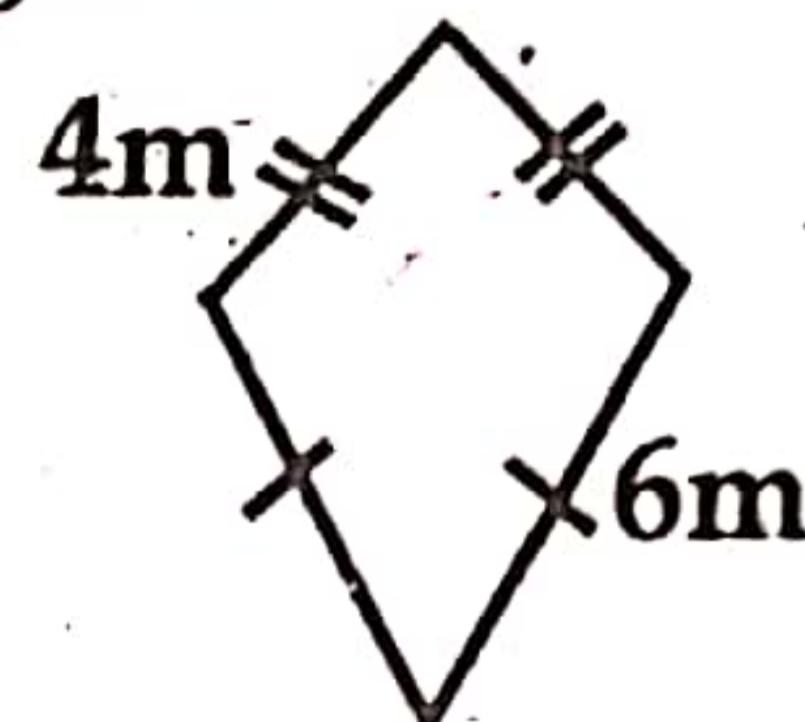
12 What number has been expanded to give; $7000 + 30 + 8$?

13 Find the L.C.M of 3 and 4.

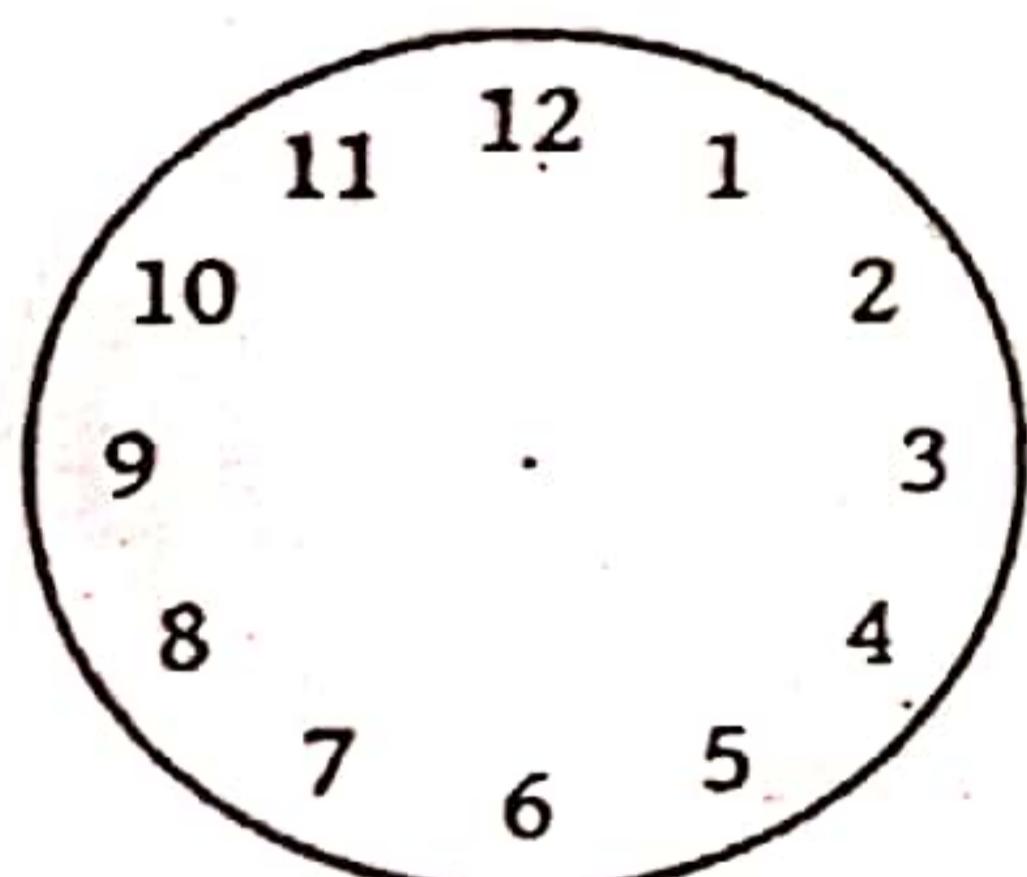
14 Write the place value of 4 in 7406.

15 Draw a trapezium in the provided space below.

16 Find the total distance around the figure.



17 Show a quarter past nine on the clock face below.



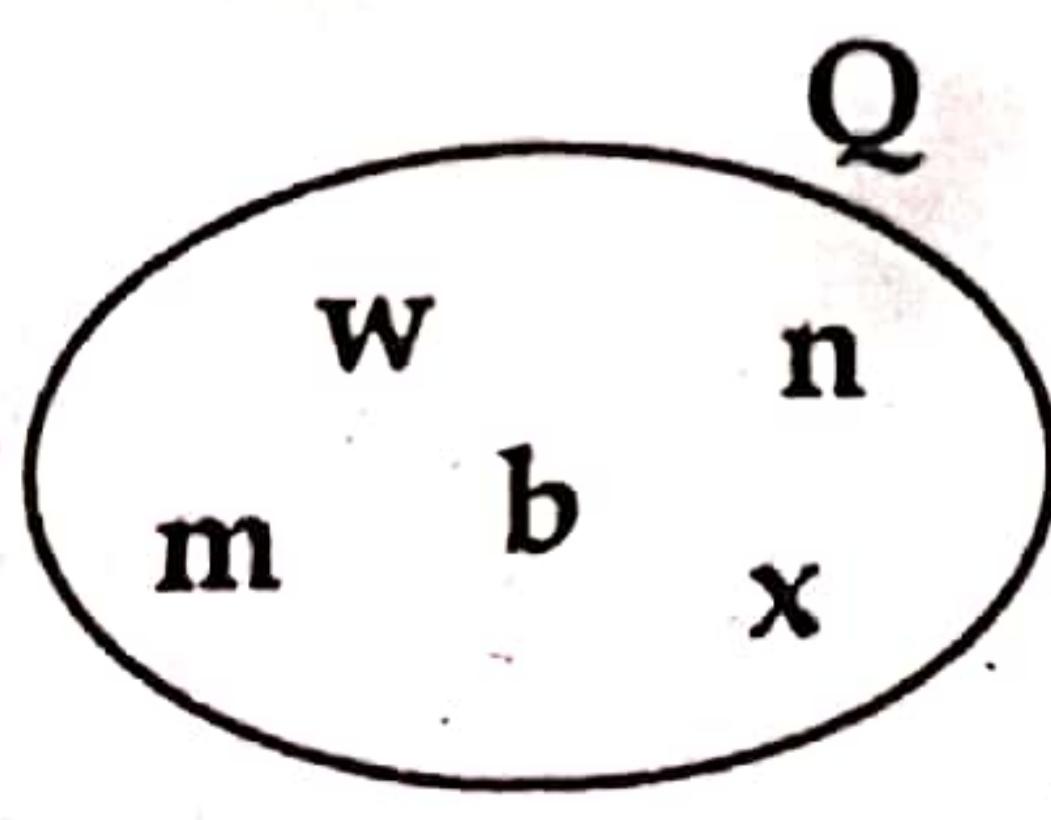
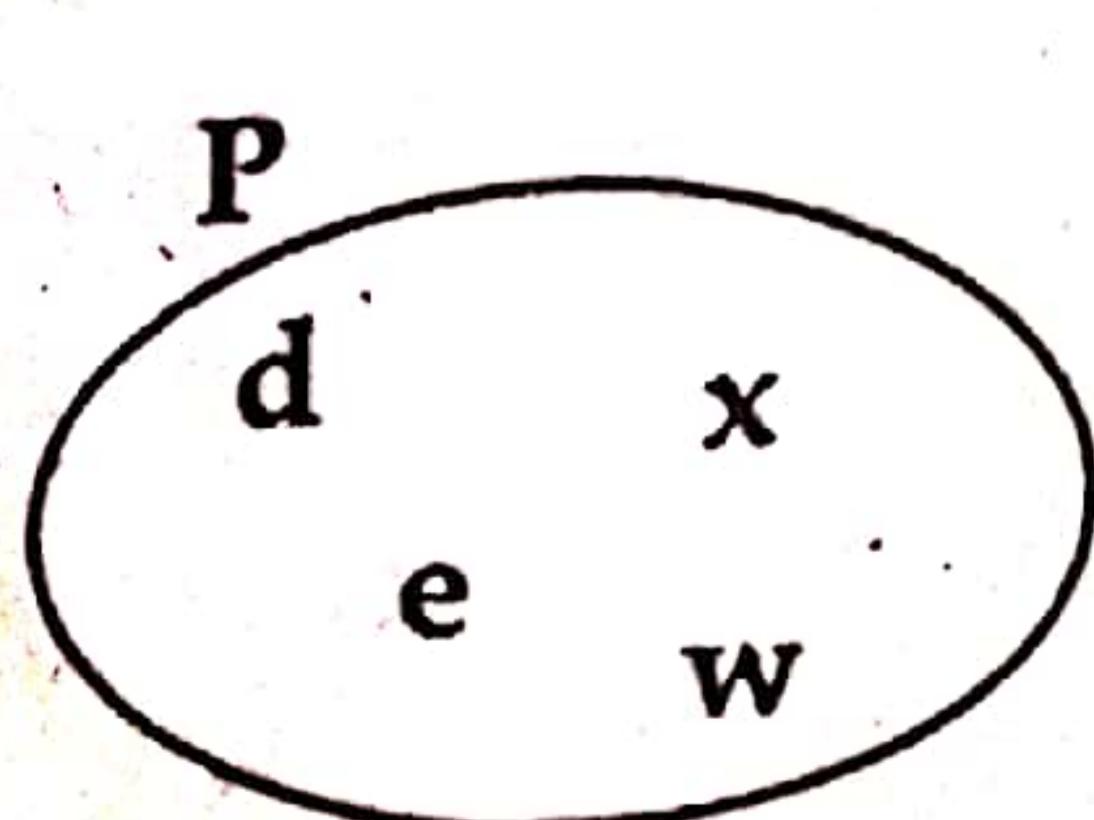
18 Work out: $\frac{7}{9} - \frac{2}{9}$

19 Share 48 mangoes equally among John, Janet and Shamira.

20 Name the second month of the year.

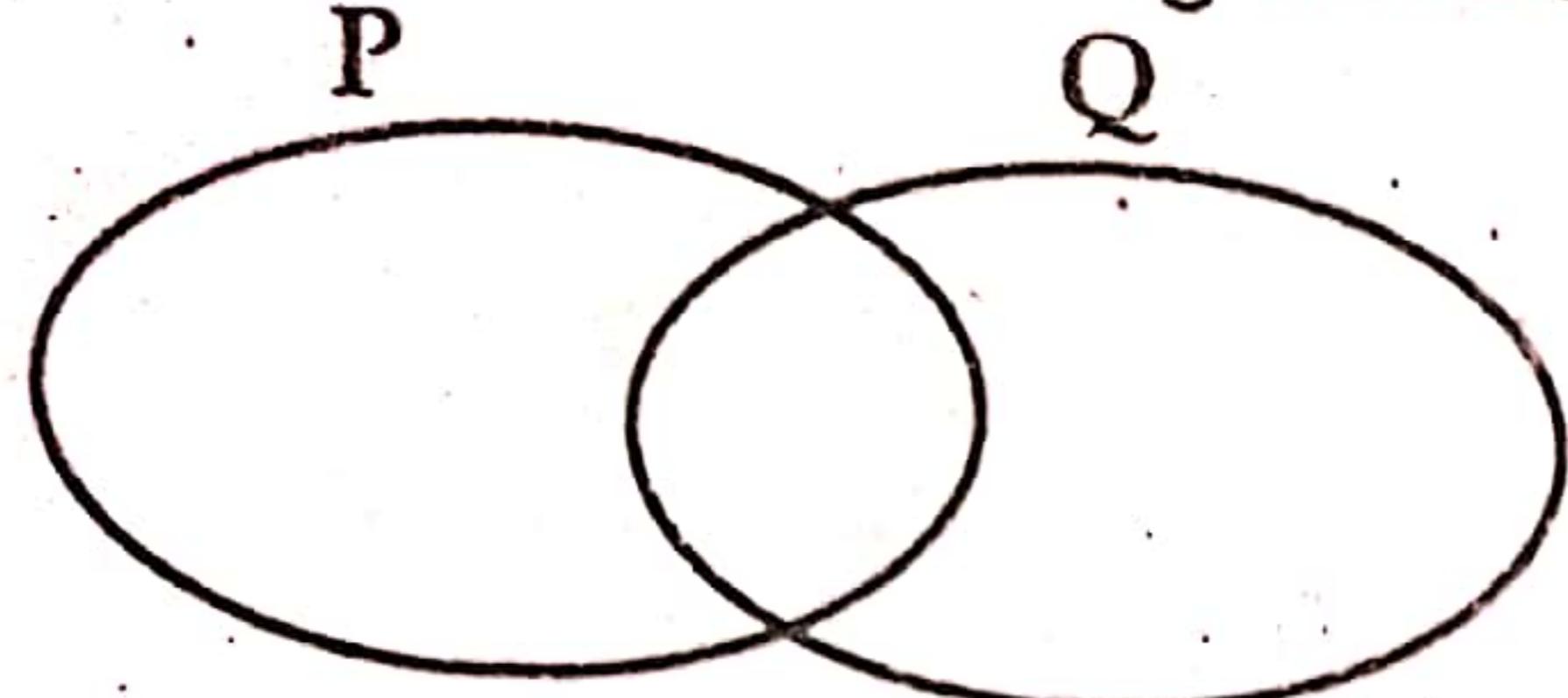
Section B (60 Marks)

21 Given that sets P and Q below. Use them to answer the questions that follow.



(a) Complete the Venn diagram below.

(03 marks)



(b) Find $n(P \cup Q)$

(02 marks)

22

The table below shows the number of apples collected by a farmer in a week. Use it to answer the questions that follow.

Days	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Number of apples	65	80	30	90	75	50	40

(a) Which day did the farmer collect the least number of apples? (01 mark)

(b) Write the number of apples collected on Thursday in words. (01 mark)

(c) Find the total number of apples collected in the last three days of the week. (02 marks)

23

(a) List down all the factors of 8.

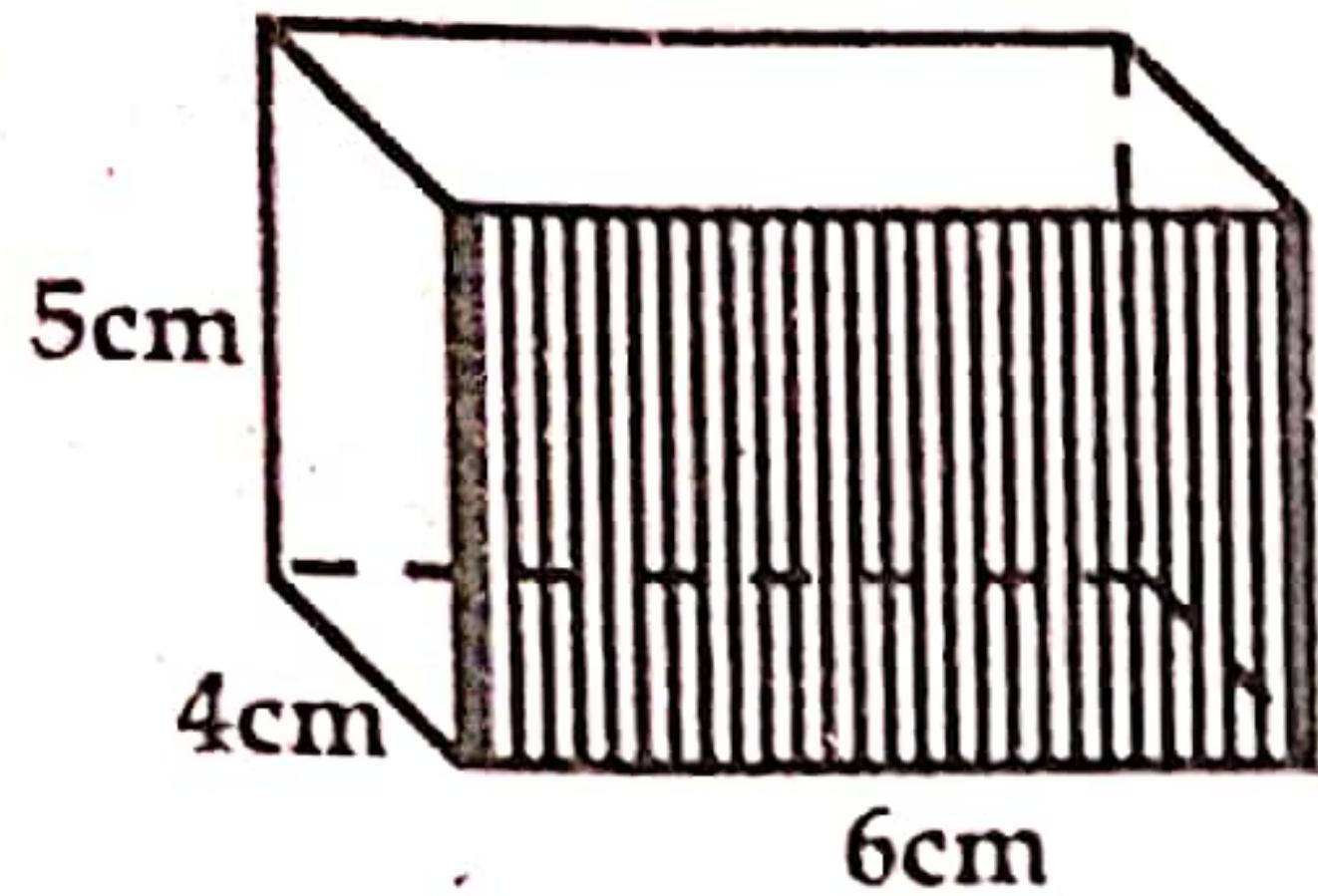
(02 marks)

(b) Workout the sum of the first 4 even numbers.

(02 marks)

(c) How many multiples of 3 are there between 9 and 21? (02 marks)

24 Study the figure below and use it to answer the question that follow.



(a) Name the above figure. (01 mark)

(b) Find the perimeter of the shaded part. (02 marks)

(c) Calculate the volume of the above figure. (02 marks)

25 (a) I think of a number, subtract 11 from it, the rest is 19. What is the number? (02 marks)

(b) Simplify: 6 cows - 8 cows + 5 cows. (02 marks)

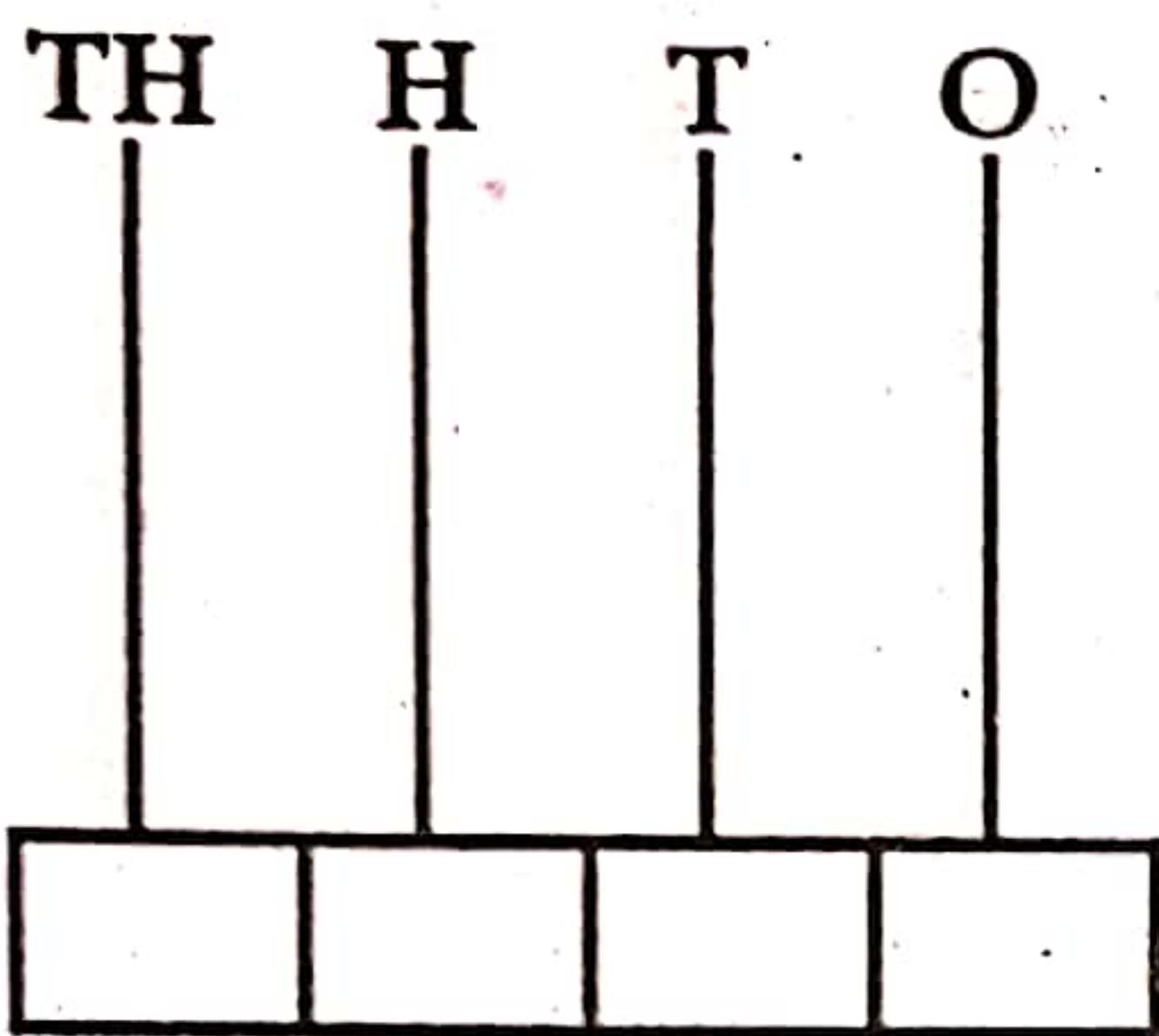
(c) Solve: $K + 3 = 11$

(02 marks)

26 Given the numeral: 7405

(a) Show the above numeral on the abacus below.

(02 marks)



(b) Workout the value of 4 in the given numeral.

(02 marks)

(c) Expand the given numeral using powers of ten.

(02 marks)

27 There are 54 pens in a bag. $\frac{1}{3}$ of them are blue pens and the rest are red pens.

(a) How many blue pens are in the bag?

(02 marks)

(b) How many pens in the bag are red?

(02 marks)

28

Study the shopping bill below and use it to answer the questions that follow.

Items	Cost per unit
A pen	sh.1500
A ruler	sh.1800
A geometry set	sh.5500
A book	sh.4000

- (a) What is the cost of the most expensive item? (01 mark)
- (b) Find the total cost of 3 geometry sets. (02 marks)
- (c) Find the total cost of all the items. (02 marks)

29

Using a pair of compasses, a ruler and a sharp pencil only, construct an equilateral triangle of sides 5cm.

(04 marks)

30

Use $>$, $<$ or $=$ to complete the statements correctly.

(01 mark each)

(a) $3 - 3 \underline{\hspace{1cm}} 3 \times 0$

(b) $400 + 1 \underline{\hspace{1cm}} 400 \times 1$

(c) A fortnight $\underline{\hspace{1cm}}$ 7 days

(d) $\frac{1}{4} \underline{\hspace{1cm}} \frac{1}{2}$

31

Workout and find the missing numbers.

(02 marks each)

(a) $\boxed{\quad} - 5 = 17$

(b) $4 \times \boxed{\quad} = 24$

(c) $\boxed{\quad} + 7 = 18$

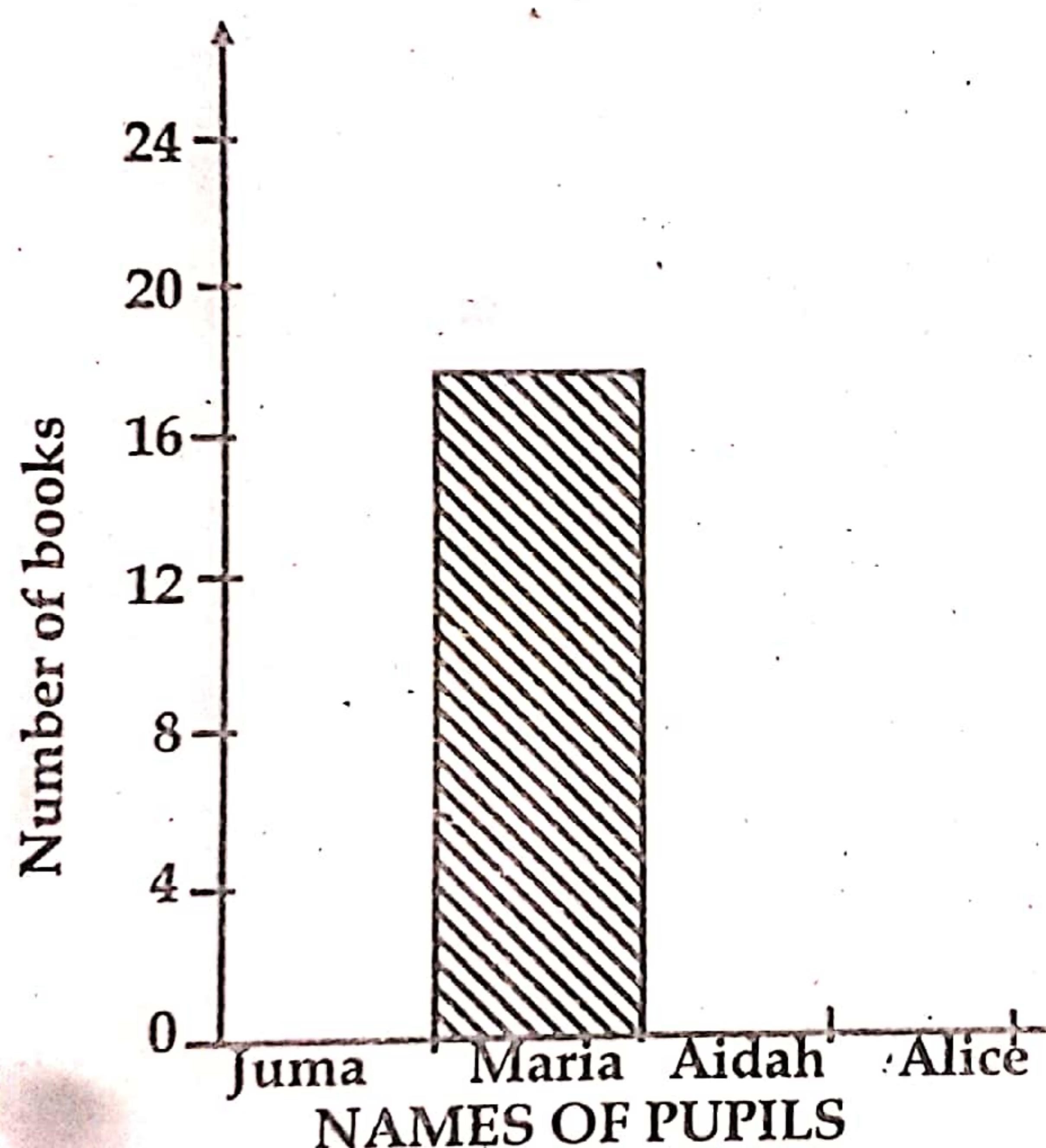
32

The table below shows the number of books received by P.5 pupils in a certain school. Use it to answer the questions that follow.

Name of pupil	Juma	Maria	Aidah	Alice
Number of books	8	18	12	22

(a) Complete the graph below.

(03 marks)



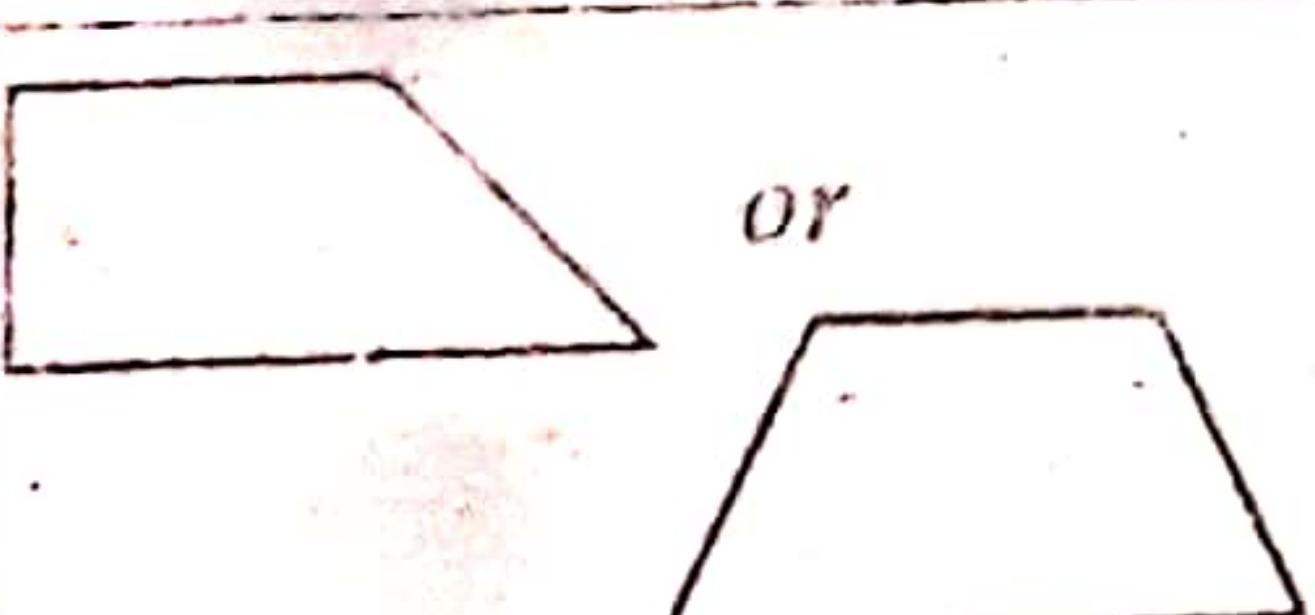
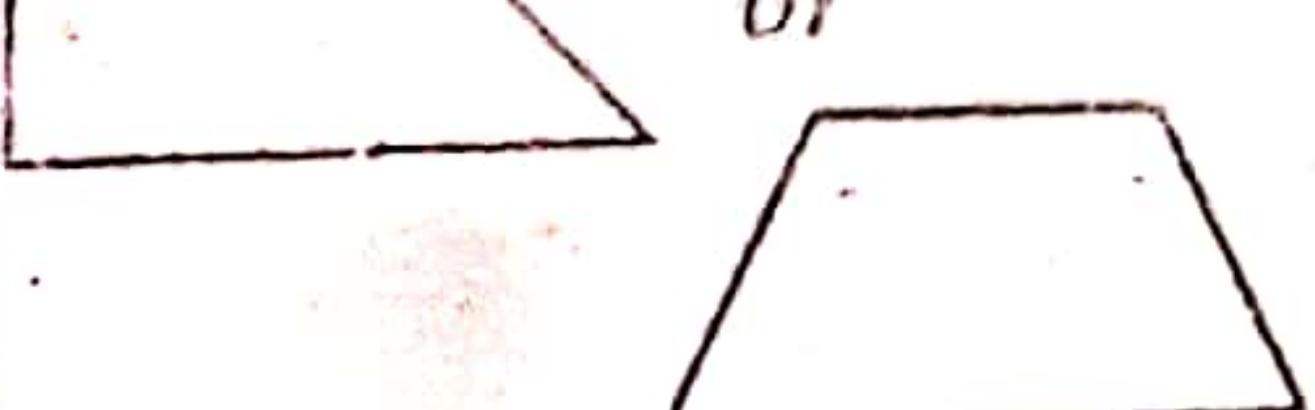
(b) How many books did they receive altogether?

(02 marks)

THE PRIME BEGINNING OF TERM I EXAMINATIONS 2023

P.5 MATHEMATICS MARKING GUIDE

SECTION A (40 MARKS)

NO	SOLUTION	MA RKS	COMMEN T	NO	SOLUTION	MA RKS	COMMEN T
1	$\begin{array}{r} 2 \ 4 \\ \times \ 2 \\ \hline 4 \ 8 \end{array}$	B ₂	Follow through	2	$49 = 40 + 9 \\ = XL + IX \\ = \underline{\underline{XLIX}}$	M ₁ A ₁	Follow through
3	set K only/ set (K-Q)	B ₂	Follow through	4	$\begin{array}{r} 12 \\ = sh. 6000 \\ sh. 500 \\ 1 \\ = 12 \text{ five hundred shilling coins.} \end{array}$	B ₂	Follow through
5	$\begin{array}{ccccccc} 17 & 15 & 13 & 11 & 9 & 7 \\ \diagdown -2 & \diagup -2 & \diagdown -2 & \diagup -2 & \diagdown -2 & \diagup -2 \\ & & & & & & \end{array}$	B ₂	Follow through	6	$\begin{array}{l} K H D M d c m \\ 1 m = 100 cm \\ 70m = (70 \times 100) cm \\ = 7000 cm \end{array}$	M ₁ A ₁	For working
7	$\begin{array}{r} 13 \times \boxed{3} = 12 \times 3 \\ \diagdown 3 \quad \diagup 1 \\ = 1 \ 2 \\ \times 3 \\ \hline 3 \ 6 \\ \boxed{3} = 36. \end{array}$	M ₁ A ₁	Follow through	8	$\begin{array}{ll} \text{Weeks} & \text{Days} \\ \hline 1 & 4 \\ 4 & 4 \\ +1 & 5 \\ \hline 6 & 2 \\ 1 w k = 7 d a y s & 4 + 5 = 9 \div 7 = 1 r 2 \end{array}$	B ₂	Follow through
9	$\begin{array}{l} = (6 + 6 + 6 + 6) \text{ trees} \\ = 24 \text{ trees} \end{array}$	B ₂	Follow through	10	$= \left(\frac{2 \times 4}{3} \right) \text{ books} = 8 \text{ books}$	M ₁ A ₁	Follow through
11	line MN = 5cm	M ₁ A ₁	Follow through	12	$\begin{array}{r} 7000 \\ + 30 \\ \hline 7030 \end{array}$	B ₂	Follow through
13	$\begin{array}{l} M_3 = 3, 6, 9, \cancel{12}, 15, 18, \dots \\ M_4 = 4, 8, \cancel{12}, 16, 20, \dots \\ = 12 \end{array}$	B ₂	Check through for correct spelling.	14	$\begin{array}{r} Th \ H \ T \ O \\ 7 \ 4 \ 0 \ 6 \\ \hline \text{Hundreds} \end{array}$	M ₁ A ₁	Follow through
15	 or 	M ₁ A ₁	Follow through	16	$\begin{array}{l} P = S + S + S + S \\ = 4m + 4m + 6m + 6m \\ = 8m + 12 \\ = 20m \end{array}$	M ₁ A ₁	Follow through
17		M ₁ A ₁	Follow through	18	$= \frac{7 - 2}{9} = \frac{5}{9}$	M ₁ A ₁	Follow through
19	$\begin{array}{r} 16 \\ \times 3 \\ \hline 48 \\ \frac{16}{31} = 16 \text{ mangoes} \end{array}$	M ₁ A ₁	Follow through	20	February	B ₂	Follow through

SECTION B (60 marks)

21	<p>(a)</p> <p>$P \cup Q = \{d, e, w, x, n, b, m\}$</p> <p>$n(P \cup Q) = 7$</p>	B_1 B_1 B_1 B_1 B_1 $\boxed{05}$	<p><i>Follow through</i></p>	22	<p>a) On Wednesday</p> <p>b) Thursday = 90 apples Ninety apples</p> <p>c) Wed 30 apples Thur +90 apples Fri <u>75 apples</u> <u>195 apples</u></p>	B_1 B_2 M_1 A_1 $\boxed{05}$	<p><i>Follow through</i></p>																
23	<p>a) 1×8 $2 \times 4 = 1, 2, 4, 8$</p> <p>b) $= 0, 2, 4, 6$ $sum = 0 + 2 + 4 + 6 = 12$</p> <p>c)</p> <table style="margin-left: 100px; margin-right: 100px;"> <tr> <td>$1 \times 3 = 3$</td> <td>$6 \times 3 = 18$</td> </tr> <tr> <td>$2 \times 3 = 6$</td> <td>$7 \times 3 = 21$</td> </tr> <tr> <td>$3 \times 3 = 9$</td> <td>$8 \times 3 = 24$</td> </tr> <tr> <td>$5 \times 3 = 15$</td> <td></td> </tr> </table> <p>$= 3, 6, 9, /12, 15, 18, 21, /24$ $= 12, 15, 18, 21$ $= 4 \text{ multiples}$</p>	$1 \times 3 = 3$	$6 \times 3 = 18$	$2 \times 3 = 6$	$7 \times 3 = 21$	$3 \times 3 = 9$	$8 \times 3 = 24$	$5 \times 3 = 15$		M_1 A_1 M_1 A_1 M_1 A_1 $\boxed{06}$	<p><i>Follow through</i></p>	24	<p>a) Cuboid</p> <p>b)</p> $\begin{aligned} P &= S + S + S + S \\ &= 6\text{cm} + 5\text{cm} + 6\text{cm} + 5\text{cm} \\ &= 22\text{cm} \end{aligned}$ <p>c)</p> $\begin{aligned} Vol. &= L \times W \times H \\ &= 6\text{cm} \times 4\text{cm} \times 5\text{cm} \\ &= 120\text{cm}^3 \end{aligned}$	B_2 B_1 M_1 A_1 $\boxed{05}$	<p><i>Follow through</i></p>								
$1 \times 3 = 3$	$6 \times 3 = 18$																						
$2 \times 3 = 6$	$7 \times 3 = 21$																						
$3 \times 3 = 9$	$8 \times 3 = 24$																						
$5 \times 3 = 15$																							
25	<p>a)</p> <p>Let the number be p</p> $p - 11 = 19$ $p = 19 + 11$ $p = 30$ <p>∴ The number is 30</p> <p>b)</p> $\begin{aligned} &= [(6+5)-8] \text{ cows} \\ &= (11-8) \text{ cows} \\ &= 3 \text{ cows} \end{aligned}$ <p>c)</p> $\begin{aligned} k &= 11 - 3 \\ k &= 8 \end{aligned}$	M_1 A_1 M_1 A_1 B_2 $\boxed{05}$	<p><i>Follow through</i></p>	26	<p>a)</p> <p>b)</p> <table style="margin-left: 100px; margin-right: 100px;"> <tr> <td>TH</td> <td>H</td> <td>T</td> <td>O</td> </tr> <tr> <td>7</td> <td>4</td> <td>0</td> <td>5</td> </tr> </table> <p>400</p> <p>c)</p> <table border="1" style="margin-left: 100px; margin-right: 100px;"> <tr> <td>10^3</td> <td>10^2</td> <td>10^1</td> <td>10^0</td> </tr> <tr> <td>7</td> <td>4</td> <td>0</td> <td>5</td> </tr> </table> $\begin{aligned} &= (7 \times 10^3) + (4 \times 10^2) + (0 \times 10^1) \\ &\quad + (5 \times 10^0) \end{aligned}$	TH	H	T	O	7	4	0	5	10^3	10^2	10^1	10^0	7	4	0	5	B_1 B_1 B_1 B_1 M_1 A_1 $\boxed{06}$	<p><i>Follow through</i></p>
TH	H	T	O																				
7	4	0	5																				
10^3	10^2	10^1	10^0																				
7	4	0	5																				
27	<p>a)</p> $\begin{array}{r} 18 \\ \times 1 \\ \hline 18 \end{array}$ <p>$= 1 \times 54$</p> <p>$\frac{3}{1}$</p> <p>$= 1 \times 18$</p> <p>$= 18 \text{ blue pens}$</p>	M_1 A_1	<p><i>Follow through</i></p>	28	<p>a) sh. 5500</p> <p>b)</p> <table style="margin-left: 100px; margin-right: 100px;"> <tr> <td>1</td> <td>sh. 5500</td> </tr> <tr> <td>sh. 5500</td> <td>+ sh. 5500</td> </tr> <tr> <td colspan="2">sh. 16500</td> </tr> </table>	1	sh. 5500	sh. 5500	+ sh. 5500	sh. 16500		B_1 B_1	<p><i>Follow through</i></p>										
1	sh. 5500																						
sh. 5500	+ sh. 5500																						
sh. 16500																							

b)
 $= (54 - 18) \text{ red pens}$
 $= 36 \text{ red pens}$

M₁

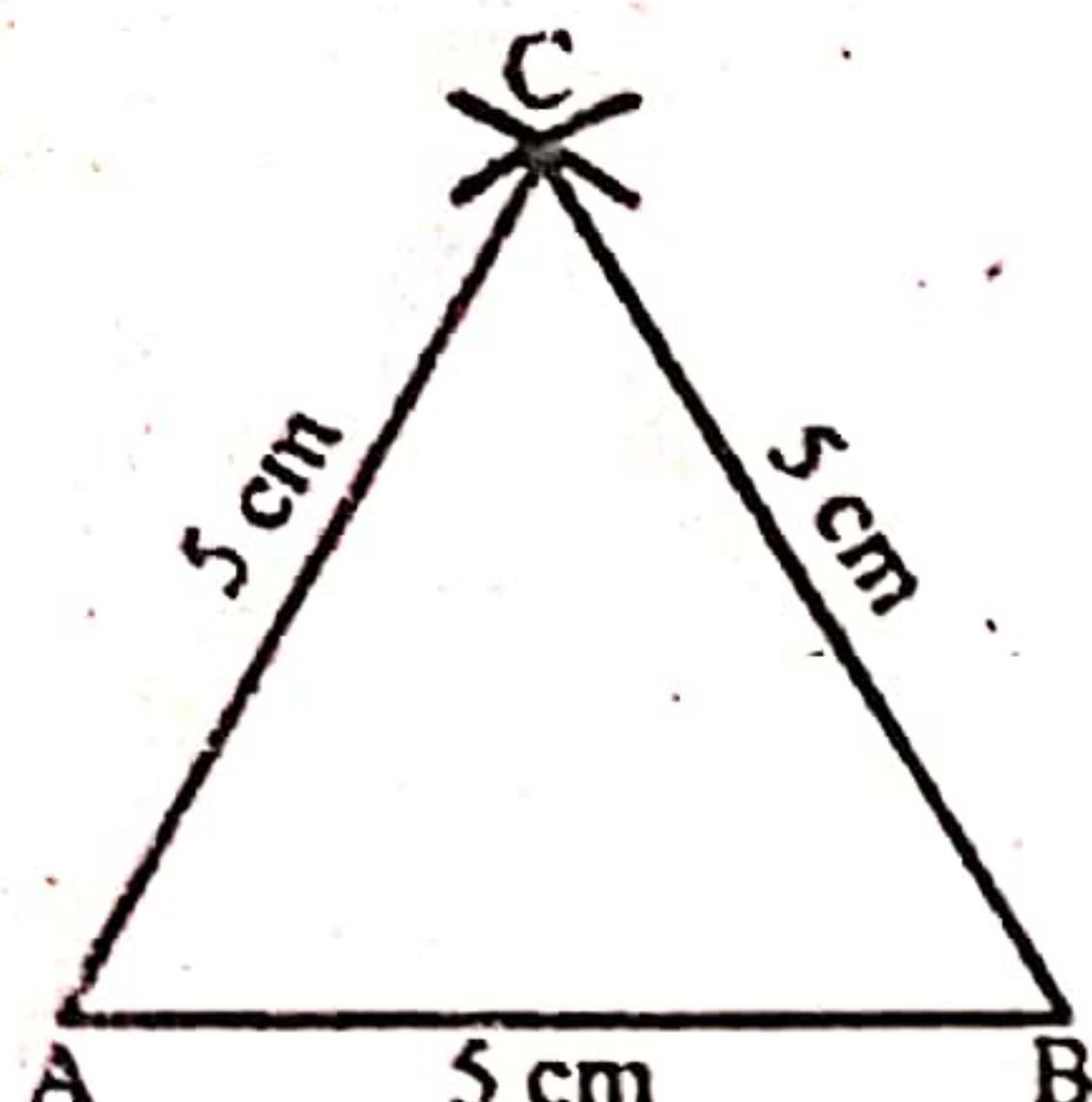
A₁
04

c)

1	sh. 1500
	sh. 1800
	sh. 5500
	+ sh. 4000
	sh. 12800

M₁
A₁
05

29



L₁

C₁

J₁

S₁

05

30

- a) =
 b) >
 c) >
 d) <

M₁

A₁

B₁

B₁

04

Follow
through

31 a) $\square = 17 + 5$
 $= 22$

b) $\frac{1}{4} \square = \underline{\underline{24}}$
 $14 \quad \quad \quad 4 \underline{2}_1$

$\square = 6$

c) $\square + 7 - 7 = 18 - 7$
 $\square = 11$

B₁

M₁

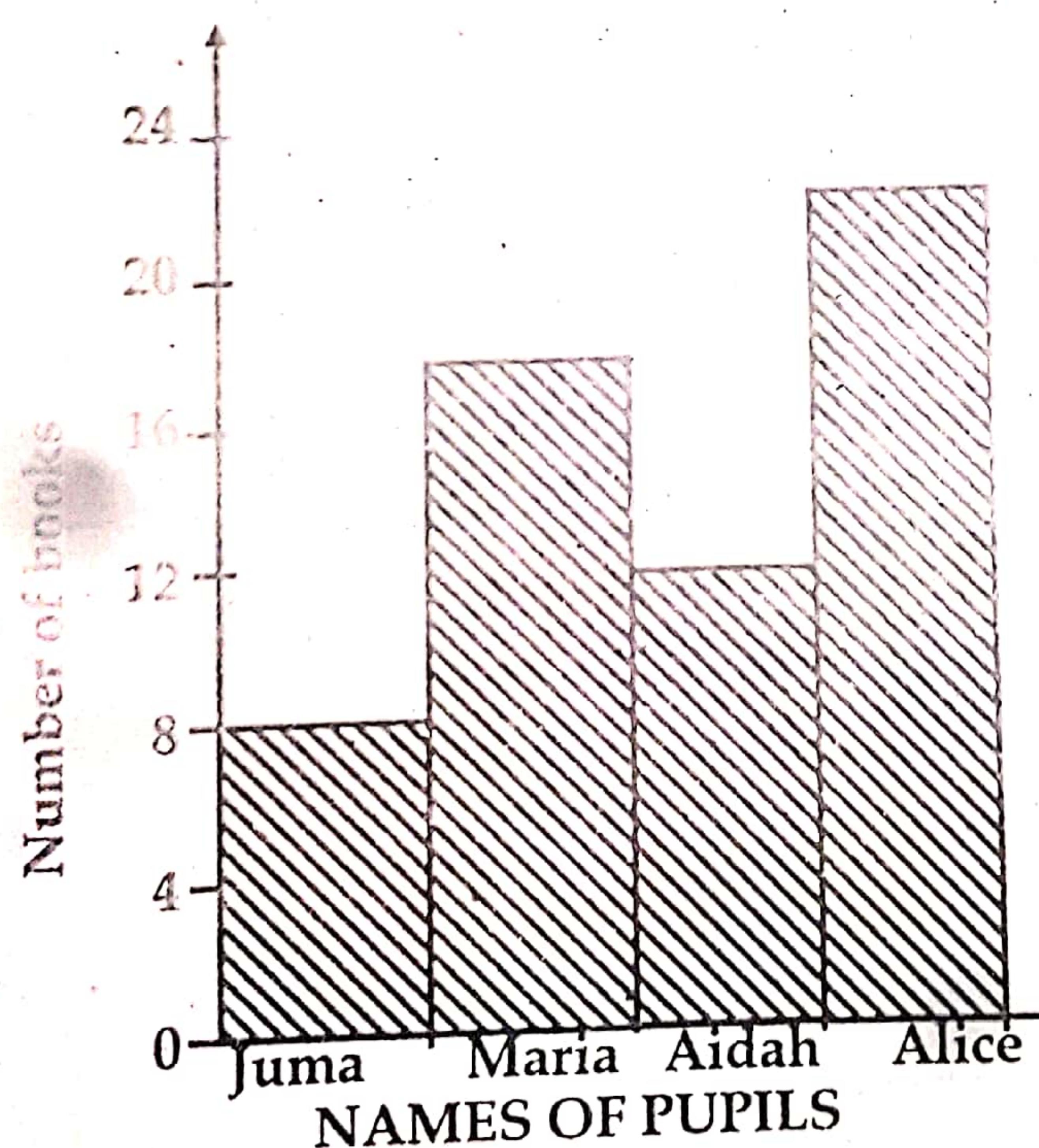
A₁

M₁

A₁

05

32



b) $(8 + 18 + 12 + 22) \text{ books}$
 $= 60 \text{ books}$

05