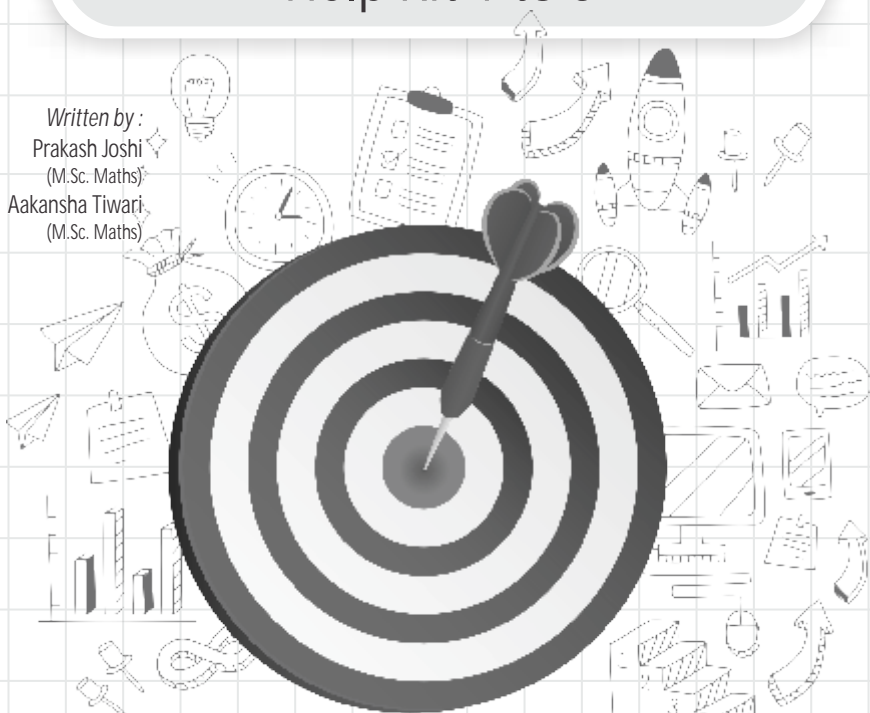


# Henry MATHS PLUS

Help Kit 1 to 5

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 Henry Books

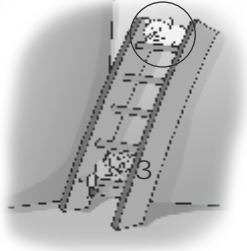
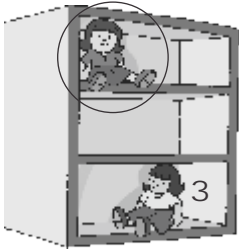
# 1 Space and Shapes

Fill in the blanks with **on**, **under**, **above**, **near**, and **below** :

- Ans.** The fan is **above** the bed.  
 The book is **on** the table.  
 A ball is **on** the chair.  
 Another ball is **near** the chair.  
 The pillow is **on** the bed.  
 The calendar is **on** the wall.

## Top and Bottom

Put a circle (O) around the one which is at the top and tick (3) the one which is at the bottom:



Fill in the blanks :

- Ans.** The block with the letter **A** is on the top.  
 The block with the letter **D** is at the bottom.  
 The **star** is on the top of the tree.  
 The **pot** is at the bottom of the tree.

## Near and Far

Put a tick (3) on the child which is near the chair :



Put a circle (O) around the doll which is far from the girl :



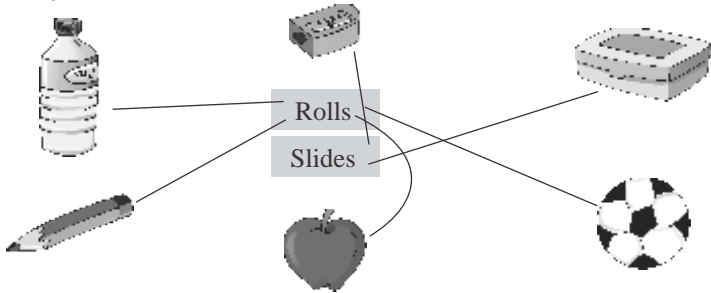
Draw two balls. The ball which is near the girl, colour it red, and the other ball which is far from the girl, colour it blue :



### Rolling and Sliding

Match the objects to the correct word :

Ans.



Put a tick (✓) for the correct word :

Ans.

Solids	Rolls	Slides
Chalk	3	
Duster		3
Water bottle	3	
School bag		3
Plate		3
Coin	3	

### Curved Lines and Straight Lines

Draw a shape with a curved line :



Draw two shapes with straight lines :



Colour the circles in red, triangles in blue and squares in green. Use your crayons :

Do it yourself

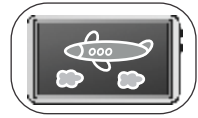
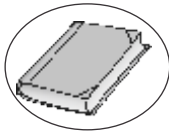
Now count and write the number of circles, triangles and squares in the given above :

Do it yourself

### Rectangle

Circle (O) the things which are in the shape of a rectangle :

Ans.

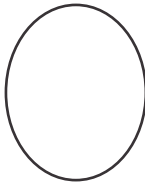


Trace the dotted lines and colour them with different colours :

Ans. Do it yourself

### Oval

Trace the oval shape :



Name any two things which have an oval shape

**Egg**

**Eyes**

Trace and colour the oval-shaped fishes with crayons of different colours :

Ans. Do it yourself

### Solids

Colour each figure to match the figures above :

Ans. Do it yourself



## 2 Numbers and Number-Names (up to 10)

Count and write how many of these are there in the park :

Ans.

9



6



8



7



2



5



3



1








### Counting

Count and tick (3) the correct number :

Ans.











	<input type="checkbox"/> 3	<input type="checkbox"/> 5	<input type="checkbox"/> 7	<input type="checkbox"/> 6
	<input type="checkbox"/> 2	<input type="checkbox"/> 5	<input type="checkbox"/> 8	<input type="checkbox"/> 3
	<input type="checkbox"/> 6	<input type="checkbox"/> 3	<input type="checkbox"/> 1	<input type="checkbox"/> 2

	4	6	37	3
	7	9	8	35
	7	8	9	310
	2	6	39	8
	5	2	34	3

Count , Read and Match

Count the objects and match them to the correct numbers and number-names :

Ans.

10		Two
8		Four
9		Three
1		Ten
5		Six
3		Seven
7		Eight
4		One
2		Five
6		Nine

Fill in the empty boxes with the numbers and number-names :

Ans.

5	6	7	8	9	10
Five	Six	Seven	Eight	Nine	Ten

Towards The Lab

Do it Yourself



3 Numbers : 1 to 50

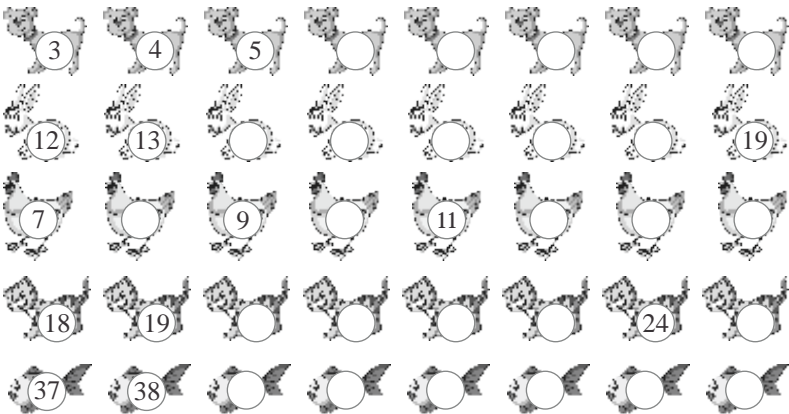
Write 1 to 50 :

Ans.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	
34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50

Write the missing numbers :

Ans.



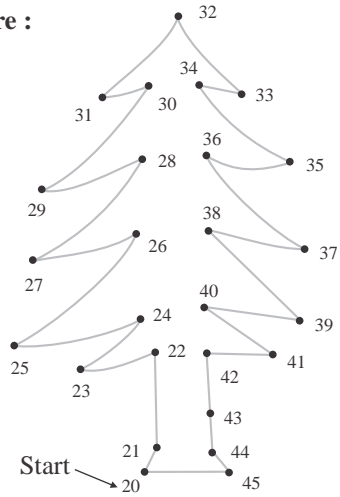
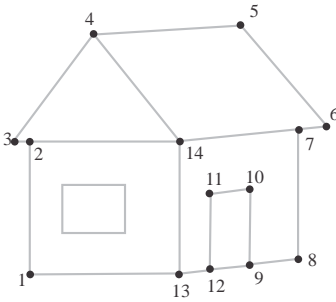
Write the number-names :

Ans.

- |             |              |             |
|-------------|--------------|-------------|
| 1 One       | 2 Two        | 3 Three     |
| 4 Four      | 5 Five       | 6 Six       |
| 7 Seven     | 8 Eight      | 9 Nine      |
| 10 Ten      | 11 Eleven    | 12 Twelve   |
| 13 Thirteen | 14 Fourteen  | 15 Fifteen  |
| 16 Sixteen  | 17 Seventeen | 18 Eighteen |
| 19 Nineteen | 20 Twenty    |             |

Join the dots in order. Then colour the picture :

Ans.



Write the number-names :

Ans.

- |    |             |          |              |        |              |
|----|-------------|----------|--------------|--------|--------------|
| 21 | Twenty One  | 23       | Twenty Three | 28     | Twenty Eight |
| 30 | Thirty      | 32       | Thirty Two   | 35     | Thirty Five  |
| 36 | Thirty Six  | 37       | Thirty Seven | 39     | Thirty Nine  |
| 40 | Forty       | 41       | Forty One    | 43     | Forty Three  |
| 44 | Forty Four  | 46       | Forty Six    | 47     | Forty Seven  |
| 48 | Forty Eight | 49       | Forty Nine   | 50     | Fifty        |
|    | 19          | Nineteen | 20           | Twenty |              |

### Comparing Numbers

Put the correct sign (<, >, =) :

- |      |    |   |    |    |   |    |     |   |     |
|------|----|---|----|----|---|----|-----|---|-----|
| Ans. | 61 | < | 68 | 30 | > | 29 | 31  | > | 13  |
|      | 34 | < | 60 | 44 | > | 34 | 100 | = | 100 |
|      | 40 | = | 40 | 59 | < | 81 | 74  | < | 83  |
|      | 72 | > | 27 | 40 | < | 64 | 68  | < | 90  |
|      | 40 | > | 30 | 80 | > | 33 | 52  | = | 52  |
|      | 63 | > | 36 | 38 | < | 83 | 10  | < | 55  |
|      | 47 | < | 74 | 55 | < | 64 | 80  | > | 34  |

What does this mean?

Ans.  $3 > 1$  Three is **greater than** one.

$2 < 5$  Two is **less than** five.

$9 > 8$  Nine is **greater than** eight.

$7 = 7$  Seven is **equal** to seven.

$6 > 3$  Six is **greater than** three.

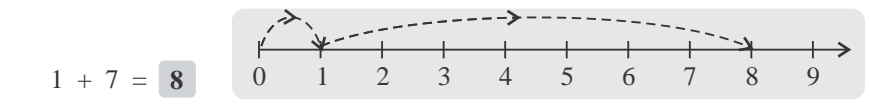
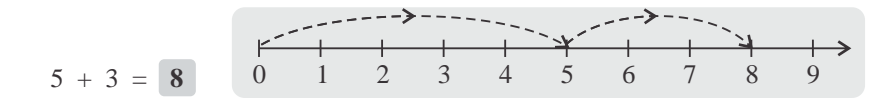
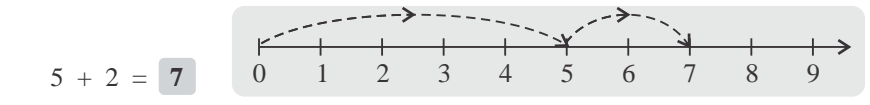
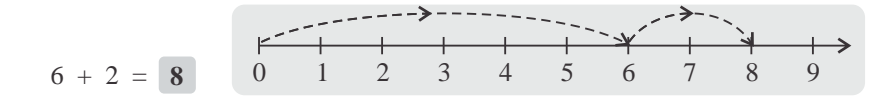
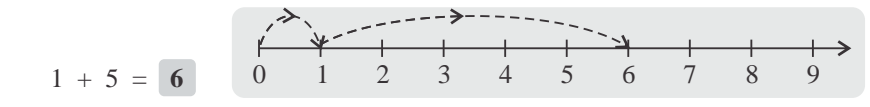
## 4 Addition

Count and write the numbers and their sum :



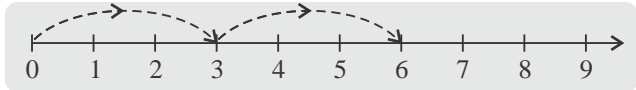
Number Line

Add on the number line :

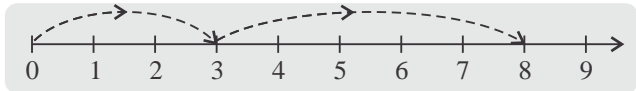




$3 + 3 = 6$



$3 + 5 = 8$



### Addition by Drawing Small Strokes

Add :

Ans.

$$\begin{array}{r} 5 \text{ |||||} \\ + 1 \text{ |} \\ \hline 6 \text{ |||||} \end{array}$$

$$\begin{array}{r} 7 \text{ |||||} \\ + 2 \text{ ||} \\ \hline 9 \text{ |||||} \end{array}$$

$$\begin{array}{r} 3 \text{ |||} \\ + 3 \text{ |||} \\ \hline 6 \text{ |||||} \end{array}$$

$$\begin{array}{r} 4 \text{ ||||} \\ + 1 \text{ |} \\ \hline 5 \text{ |||||} \end{array}$$

$$\begin{array}{r} 5 \text{ |||||} \\ + 2 \text{ ||} \\ \hline 7 \text{ |||||} \end{array}$$

$$\begin{array}{r} 1 \text{ |} \\ + 2 \text{ ||} \\ \hline 3 \text{ |||} \end{array}$$

$$\begin{array}{r} 6 \text{ |||||} \\ + 2 \text{ ||} \\ \hline 8 \text{ |||||} \end{array}$$

$$\begin{array}{r} 7 \text{ |||||} \\ + 1 \text{ |} \\ \hline 8 \text{ |||||} \end{array}$$

$$\begin{array}{r} 3 \text{ |||} \\ + 2 \text{ ||} \\ \hline 5 \text{ |||||} \end{array}$$

$$\begin{array}{r} 3 \text{ |||} \\ + 4 \text{ ||||} \\ \hline 7 \text{ |||||} \end{array}$$

$$\begin{array}{r} 7 \text{ |||||} \\ + 2 \text{ ||} \\ \hline 9 \text{ |||||} \end{array}$$

$$\begin{array}{r} 4 \text{ ||||} \\ + 4 \text{ ||||} \\ \hline 8 \text{ |||||} \end{array}$$

$$\begin{array}{r} 1 \text{ |} \\ + 1 \text{ |} \\ \hline 2 \text{ ||} \end{array}$$

$$\begin{array}{r} 4 \text{ ||||} \\ + 5 \text{ |||||} \\ \hline 9 \text{ |||||} \end{array}$$

$$\begin{array}{r} 5 \text{ |||||} \\ + 3 \text{ |||} \\ \hline 8 \text{ |||||} \end{array}$$

$$\begin{array}{r} 4 \text{ ||||} \\ + 3 \text{ |||} \\ \hline 7 \text{ |||||} \end{array}$$

### Counting Forward

Add by counting forward :

$1 + 1 = 2$

$2 + 1 = 3$

$3 + 1 = 4$

$4 + 1 = 5$

$5 + 1 = 6$

$6 + 1 = 7$

$7 + 1 = 8$

$8 + 1 = 9$

$9 + 1 = 10$

$10 + 1 = 11$

$11 + 1 = 12$

$12 + 1 = 13$

$1 + 2 = 3$

$2 + 2 = 4$

$3 + 2 = 5$

$11 + 5 = 16$

$5 + 2 = 7$

$6 + 2 = 8$

$7 + 2 = 9$

$7 + 9 = 16$

$3 + 3 = 6$

$4 + 3 = 7$

$5 + 3 = 8$

$4 + 3 = 7$

$7 + 3 = 10$

$8 + 3 = 11$

$9 + 3 = 12$

$8 + 5 = 8$

$5 + 5 = 10$

$9 + 4 = 13$

$8 + 3 = 11$

$5 + 5 = 10$

$8 + 4 = 12$

$6 + 5 = 11$

$4 + 3 = 7$

$9 + 4 = 13$

$9 + 7 = 16$

$7 + 6 = 13$

$5 + 3 = 8$

$7 + 2 = 9$

## Order in Addition

Add these :

Ans.

$$\begin{array}{r} 6 + 3 = \boxed{9} \\ 3 + 6 = \boxed{9} \end{array}$$

$$\begin{array}{r} 5 + 1 = \boxed{6} \\ 1 + 5 = \boxed{6} \end{array}$$

$$\begin{array}{r} 2 \quad 1 \\ + 1 \quad + 2 \\ \hline \boxed{3} \quad \boxed{3} \end{array}$$

$$\begin{array}{r} 7 \quad 1 \\ + 1 \quad + 7 \\ \hline \boxed{8} \quad \boxed{8} \end{array}$$

$$\begin{array}{r} 4 + 2 = \boxed{6} \\ 2 + 4 = \boxed{6} \end{array}$$

$$\begin{array}{r} 3 + 4 = \boxed{7} \\ 4 + 3 = \boxed{7} \end{array}$$

$$\begin{array}{r} 3 \quad 1 \\ + 1 \quad + 3 \\ \hline \boxed{4} \quad \boxed{4} \end{array}$$

$$\begin{array}{r} 5 \quad 2 \\ + 2 \quad + 6 \\ \hline \boxed{8} \quad \boxed{8} \end{array}$$

## Adding Across and Down

Adding across and down :

$$\begin{array}{r} \xrightarrow{+} \\ \begin{array}{|c|c|c|} \hline 2 & 2 & \boxed{4} \\ \hline 3 & 2 & \boxed{5} \\ \hline \end{array} \\ + \downarrow \\ \begin{array}{|c|c|c|} \hline \boxed{5} & \boxed{4} & \boxed{9} \\ \hline \end{array} \end{array}$$

$$\begin{array}{r} \xrightarrow{+} \\ \begin{array}{|c|c|c|} \hline 3 & 1 & \boxed{4} \\ \hline 2 & 3 & \boxed{5} \\ \hline \end{array} \\ + \downarrow \\ \begin{array}{|c|c|c|} \hline \boxed{5} & \boxed{4} & \boxed{9} \\ \hline \end{array} \end{array}$$

$$\begin{array}{r} \xrightarrow{+} \\ \begin{array}{|c|c|c|} \hline 2 & 3 & \boxed{5} \\ \hline 2 & 1 & \boxed{3} \\ \hline \end{array} \\ + \downarrow \\ \begin{array}{|c|c|c|} \hline \boxed{4} & \boxed{4} & \boxed{8} \\ \hline \end{array} \end{array}$$

Writing an addition statement :

$\blacklozenge + \blacklozenge = \blacklozenge \blacklozenge$	$1 + 1 = 2$
$\blacklozenge \blacklozenge + \blacklozenge = \blacklozenge \blacklozenge \blacklozenge$	$2 + 1 = 3$
$\blacklozenge \blacklozenge \blacklozenge + \blacklozenge = \blacklozenge \blacklozenge \blacklozenge \blacklozenge$	$3 + 1 = 4$
$\blacklozenge \blacklozenge + \blacklozenge \blacklozenge = \blacklozenge \blacklozenge \blacklozenge \blacklozenge$	$2 + 2 = 4$
$\blacklozenge \blacklozenge \blacklozenge + \blacklozenge \blacklozenge = \blacklozenge \blacklozenge \blacklozenge \blacklozenge \blacklozenge$	$3 + 2 = 5$

## Missing Numbers

Look at the pictures to fill in the missing numbers :




$$\begin{array}{r} 3 \\ + \boxed{4} \\ \hline 7 \end{array}$$



$$\begin{array}{r} 5 \\ + \boxed{3} \\ \hline 8 \end{array}$$

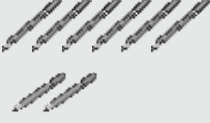


$$\begin{array}{r} \boxed{5} \\ + 4 \\ \hline 9 \end{array}$$



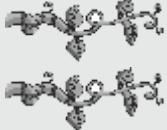
$$\begin{array}{r} 4 \\ + \boxed{3} \\ \hline 7 \end{array}$$




$$\begin{array}{r} 7 \\ + 2 \\ \hline 9 \end{array}$$


$$\begin{array}{r} 6 \\ + 2 \\ \hline 8 \end{array}$$


$$\begin{array}{r} 2 \\ + 3 \\ \hline 5 \end{array}$$


$$\begin{array}{r} 3 \\ + 3 \\ \hline 6 \end{array}$$


$$\begin{array}{r} 4 \\ + 4 \\ \hline 8 \end{array}$$


$$\begin{array}{r} 5 \\ + 4 \\ \hline 9 \end{array}$$

### Addition of Three Numbers

Add these numbers :

Ans.

$$\begin{array}{l} 5 + 3 + 1 = 9 \\ 7 + 1 + 1 = 9 \\ 4 + 5 + 0 = 9 \\ 6 + 2 + 1 = 9 \end{array}$$

$$\begin{array}{l} 1 + 7 + 1 = 9 \\ 4 + 5 + 1 = 10 \\ 5 + 2 + 0 = 7 \\ 6 + 2 + 2 = 10 \end{array}$$

$$\begin{array}{l} 3 + 4 + 1 = 8 \\ 6 + 2 + 0 = 8 \\ 2 + 5 + 2 = 9 \\ 4 + 5 + 0 = 9 \end{array}$$

Add these numbers :

Ans.

$\begin{array}{r} 1 \\ 2 \\ + 2 \\ \hline 5 \end{array}$	$\begin{array}{r} 3 \\ 3 \\ + 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 2 \\ 3 \\ + 4 \\ \hline 9 \end{array}$	$\begin{array}{r} 1 \\ 3 \\ + 2 \\ \hline 6 \end{array}$	$\begin{array}{r} 2 \\ 2 \\ + 3 \\ \hline 7 \end{array}$	$\begin{array}{r} 4 \\ 2 \\ + 3 \\ \hline 9 \end{array}$
--	--	--	--	--	--





Story Sums on Addition :

Ans.

$\begin{array}{r} 4 \\ + 2 \\ \hline 6 \end{array}$	$\begin{array}{r} 3 \\ + 2 \\ \hline 5 \end{array}$	$\begin{array}{r} 1 \\ + 2 \\ \hline 3 \end{array}$	$\begin{array}{r} 4 \\ + 3 \\ \hline 7 \end{array}$
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
Towards The Lab

Now, try it out :

 $7 \div 7 = 14$	 $7 \div 4 = 11$
 $5 \div 7 = 12$	 $6 \div 6 = 12$

# 5 Subtraction

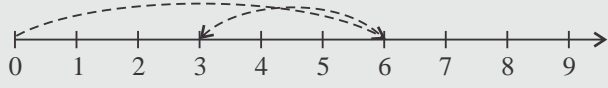
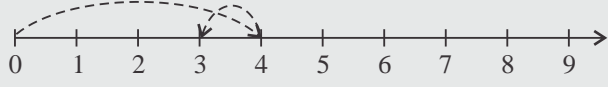
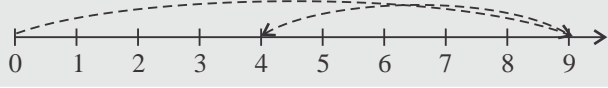
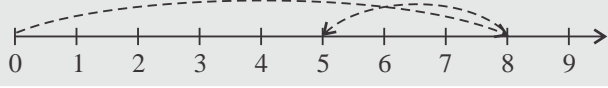
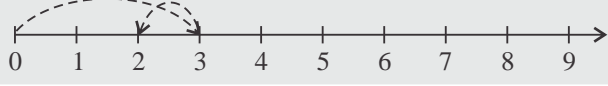
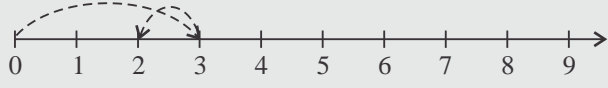
Subtraction

 <b>5</b>	-	 <b>3</b>	=	 <b>2</b>
 <b>3</b>	-	 <b>3</b>	=	<b>0</b>
 <b>6</b>	-	 <b>4</b>	=	 <b>2</b>
 <b>5</b>	-	 <b>2</b>	=	 <b>3</b>

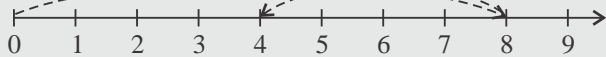
## Number Line

**Subtract on number line :**

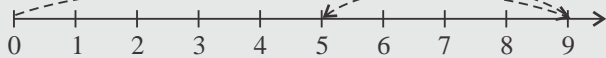
**Ans.**

$6 - 3 = $ <b>3</b>	
$4 - 1 = $ <b>3</b>	
$9 - 5 = $ <b>4</b>	
$8 - 3 = $ <b>5</b>	
$3 - 1 = $ <b>2</b>	
$4 - 3 = $ <b>1</b>	

$8 - 4 = 4$



$9 - 4 = 5$



### Subtraction By Drawing Small Strokes

Subtract the following by drawing small strokes :

Ans.

$$\begin{array}{r} 3 \text{ III} \\ - 1 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 4 \text{ IIII} \\ - 2 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 2 \text{ II} \\ - 1 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 4 \text{ IIII} \\ - 1 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 5 \text{ IIIII} \\ - 4 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 7 \text{ IIIIII} \\ - 2 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 7 \text{ IIIIII} \\ - 4 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 5 \text{ IIIII} \\ - 1 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 3 \text{ III} \\ - 2 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 6 \text{ IIIII} \\ - 2 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 8 \text{ IIIIII} \\ - 4 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 7 \text{ IIIIII} \\ - 3 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 8 \text{ IIIIII} \\ - 2 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 9 \text{ IIIIII} \\ - 5 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 5 \text{ IIIII} \\ - 3 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 8 \text{ IIIIII} \\ - 1 \\ \hline 7 \end{array}$$

### Counting Backward

Subtract by counting backward :

Ans.

$2 - 1 = 1$

$2 - 1 = 1$

$3 - 1 = 2$

$4 - 1 = 3$

$5 - 1 = 4$

$6 - 1 = 5$

$7 - 1 = 6$

$8 - 1 = 7$

$9 - 1 = 8$

$10 - 1 = 9$

$11 - 1 = 10$

$12 - 1 = 11$

$11 - 2 = 9$

$2 - 2 = 0$

$3 - 2 = 1$

$11 - 5 = 6$

$5 - 2 = 3$

$6 - 2 = 4$

$7 - 2 = 5$

$17 - 9 = 8$

$3 - 3 = 0$

$4 - 3 = 1$

$5 - 3 = 2$

$4 - 3 = 1$

$7 - 3 = 4$

$8 - 3 = 5$

$9 - 3 = 6$

$8 - 5 = 3$

$5 - 5 = 0$

$9 - 4 = 5$

$8 - 3 = 5$

$5 - 5 = 0$

$8 - 4 = 4$

$6 - 5 = 1$

$4 - 3 = 1$

$9 - 4 = 5$

$9 - 7 = 2$

$7 - 6 = 1$

$5 - 3 = 2$

$7 - 2 = 5$

## Subtracting Both Ways

**Subtract :**

**Ans.**

$$\begin{array}{r} 4 \\ - 2 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 5 \\ - 2 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 7 \\ - 5 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 8 \\ - 1 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 9 \\ - 3 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 7 \\ - 6 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 8 \\ - 4 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 2 \\ - 1 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 7 \\ - 3 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 5 \\ - 4 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 3 \\ - 1 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 4 \\ - 1 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 8 \\ - 7 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 8 \\ - 5 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 6 \\ - 2 \\ \hline 4 \end{array}$$

## Adding Zero

**Fill in :**

**Ans.**

$$\begin{array}{l} 1 + 0 = \mathbf{1} \\ 0 + 2 = \mathbf{2} \\ 3 + 0 = \mathbf{3} \end{array}$$

$$\begin{array}{l} 4 + 0 = \mathbf{4} \\ 0 + 4 = \mathbf{4} \\ 5 + 0 = \mathbf{5} \end{array}$$

$$\begin{array}{l} 6 + 0 = \mathbf{6} \\ 7 + 0 = \mathbf{7} \\ 0 + 8 = \mathbf{8} \end{array}$$

$$\begin{array}{l} 9 + 0 = \mathbf{9} \\ 8 + 0 = \mathbf{8} \\ 2 + 0 = \mathbf{2} \end{array}$$

## Subtracting Zero

**Fill in :**

**Ans.**

$$\begin{array}{l} 1 - 0 = \mathbf{1} \\ 2 - 0 = \mathbf{2} \\ 3 - 0 = \mathbf{3} \\ 7 - 0 = \mathbf{7} \end{array}$$

$$\begin{array}{l} 4 - 0 = \mathbf{4} \\ 5 - 0 = \mathbf{5} \\ 0 - 0 = \mathbf{0} \\ 8 - 0 = \mathbf{8} \end{array}$$

$$\begin{array}{l} 6 - 0 = \mathbf{6} \\ 7 - 0 = \mathbf{7} \\ 8 - 0 = \mathbf{8} \\ 9 - 0 = \mathbf{9} \end{array}$$

$$\begin{array}{l} 9 - 0 = \mathbf{9} \\ 5 - 0 = \mathbf{5} \\ 1 - 0 = \mathbf{1} \\ 3 - 0 = \mathbf{3} \end{array}$$

**Fill in '+' or '-' :**

**Ans.**

$$\begin{array}{l} 8 \text{ } \mathbf{-} \text{ } 4 = 4 \\ 8 \text{ } \mathbf{-} \text{ } 6 = 2 \\ 5 \text{ } \mathbf{+} \text{ } 2 = 7 \\ 7 \text{ } \mathbf{-} \text{ } 1 = 5 \end{array}$$

$$\begin{array}{l} 4 \text{ } \mathbf{+} \text{ } 4 = 8 \\ 9 \text{ } \mathbf{-} \text{ } 3 = 6 \\ 2 \text{ } \mathbf{+} \text{ } 2 = 4 \\ 5 \text{ } \mathbf{-} \text{ } 2 = 3 \end{array}$$

$$\begin{array}{l} 0 \text{ } \mathbf{+} \text{ } 9 = 9 \\ 3 \text{ } \mathbf{+} \text{ } 4 = 7 \\ 5 \text{ } \mathbf{+} \text{ } 3 = 8 \\ 2 \text{ } \mathbf{+} \text{ } 7 = 9 \end{array}$$

$$\begin{array}{l} 9 \text{ } \mathbf{-} \text{ } 7 = 2 \\ 2 \text{ } \mathbf{+} \text{ } 5 = 7 \\ 4 \text{ } \mathbf{+} \text{ } 5 = 9 \\ 9 \text{ } \mathbf{-} \text{ } 5 = 4 \end{array}$$

## Subtracting a Number from Itself

**Fill in :**

**Ans.**

$$\begin{array}{l} 1 - 1 = \mathbf{0} \\ 2 - 2 = \mathbf{0} \\ 3 - 3 = \mathbf{0} \\ 4 - 4 = \mathbf{0} \end{array}$$

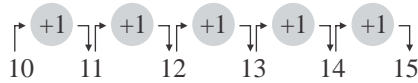
$$\begin{array}{l} 5 - 5 = \mathbf{0} \\ 6 - 6 = \mathbf{0} \\ 7 - 7 = \mathbf{0} \\ 8 - 8 = \mathbf{0} \end{array}$$

$$\begin{array}{l} 9 - 9 = \mathbf{0} \\ 10 - 10 = \mathbf{0} \\ 11 - 11 = \mathbf{0} \\ 12 - 12 = \mathbf{0} \end{array}$$

$$\begin{array}{l} 13 - 13 = \mathbf{0} \\ 14 - 14 = \mathbf{0} \\ 15 - 15 = \mathbf{0} \\ 16 - 16 = \mathbf{0} \end{array}$$

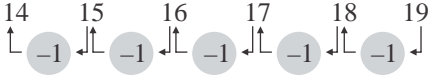
Fill in for counting forward :

Ans.



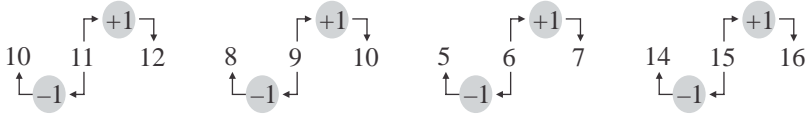
Fill in for counting backward:

Ans.



Fill in for the numbers before and after :

Ans.



Making Both Sides the Same

Count and write the numbers and their sum :

Ans. 7 = 2 +	6 = 9 - 5	9 = 3 + 6
5 = 7 -	8 = 4 + 2	3 = 6 - 3
6 = 1 +	8 = 9 - 5	4 = 2 + 2
2 = 6 +	5 = 5 +	1 = 7 +
7 = 2 +	7 = 2 + 5	7 = 2 + 5

Story Sums

Karan's team has 7 players. Avik's team has 3 players.

Ans. Avik needs 4 players to make both teams equal.

Juhi has 8 flowers in her hand. Megha has 6 flowers.

Ans. Megha needs 2 flowers to have the same number of flowers.

Anu has 9 chocolates and Princy has 7 chocolates.

Ans. Princy needs 2 chocolates to have the same as Anu.

Towards The Lab

Fill in :

Ans. 6 + 3 = 9		2 + 5 = 7	
6 + 2 = 8	8 - 2 = 6	8 - 6 = 2	6 + 2 = 8
5 + 4 = 9	9 - 5 = 4	9 - 4 = 5	5 + 4 = 9
7 + 5 = 12	12 - 5 = 7	12 - 7 = 5	7 + 5 = 12



## 6 Ordinal Numbers

Look at the picture and tell who is at what place :

Ans. Kangaroo is 4th in race.

Tiger is 10th in race.

Horse is 8th in race.

Donkey is 5th in race.

Dog is 2nd in race.

Elephant is 1st in race.

**Fill in the boxes and find the animals :**

Ans. **E L E P H A N T**

The	VIth	letter is	<b>A</b>
The	IIInd	letter is	<b>L</b>
The	Ist	letter is	<b>E</b>
The	Vth	letter is	<b>H</b>
The	IIIrd	letter is	<b>E</b>
The	IVth	letter is	<b>P</b>
The	VIIth	letter is	<b>N</b>
The	VIIIth	letter is	<b>T</b>

**K A N G A R O O**

The	IVth	letter is	<b>G</b>
The	Vth	letter is	<b>A</b>
The	Ist	letter is	<b>K</b>
The	IIIrd	letter is	<b>N</b>
The	VIrd	letter is	<b>R</b>
The	IIInd	letter is	<b>A</b>
The	VIIth	letter is	<b>O</b>
The	VIIIth	letter is	<b>O</b>

**Fill in the boxes and find the fruits :**

Ans. **O R A N G E**

The	Ist	letter is	<b>O</b>
The	6th	letter is	<b>E</b>
The	4th	letter is	<b>N</b>
The	2nd	letter is	<b>R</b>
The	3rd	letter is	<b>A</b>
The	5th	letter is	<b>G</b>

**G R A P E S**

The	5th	letter is	<b>E</b>
The	6th	letter is	<b>S</b>
The	4th	letter is	<b>P</b>
The	2nd	letter is	<b>R</b>
The	Isr	letter is	<b>G</b>
The	3rd	letter is	<b>A</b>

**Counting from the right :**

Ans. Do it yourself



**7 Numbers : 51 to 100**

**Write 51 to 100 :**

Ans.

51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67
68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	
84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

**Write in words :**

Ans.

<b>56</b> Fifty Six	<b>67</b> Sixty Seven	<b>78</b> Seventy Eight
<b>89</b> Eighty Nine	<b>90</b> Ninety	<b>92</b> Ninety Two
<b>69</b> Sixty Nine	<b>54</b> Fifty Four	<b>63</b> Sixty Three



76 Seventy Six

75 Seventy Five

88 Eighty Eight

100 Hundred

86 Eighty Six

96 Ninety Six

**Colour the correct number :**

**Ans.** Do it yourself

**Write the numerals :**

**Ans.** Seventy-three 73

Eighty-four 84

Fifty-five 55

Fifty-nine 59

Sixty-seven 67

Eighty-eight 88

Ninety-five 95

Seventy-six 76

Sixty-two 62

**Write the number-names :**

**Ans.** 52 Fifty Two

64 Sixty Four

87 Eighty Seven

67 Sixty Seven

74 Seventy Four

57 Fifty Seven

72 Seventy Two

99 Ninety Nine

88 Eighty Eight

63 Sixty Three

**Fill in the boxes :**

**Ans.** 60 61 62 63 64 65 66 67 68 69

70 71 72 73 74 75 76 77 78 79

85 86 87 88 89 90 91 92 93 94

53 54 55 56 57 58 59 60 61 62

**Count backwards and fill in :**

**Ans.** 60 59 58 57 56 55 54 53 52 51

68 67 66 65 64 63 62 61 60 59

80 79 78 77 76 75 74 73 72 71

95 94 93 92 91 90 89 88 87 86

Write a number on the line that is just less than the number shown :

42	43	18	19	97	98
61	62	27	28	33	34
14	15	80	81	78	79
66	67	39	40	21	22
24	25	96	97	64	65
85	86	34	35	10	11
92	93	69	70	48	49
60	61	9	10	82	83
35	36	77	78	22	23
35	36	77	78	22	23
45	46	86	87	12	13
14	15	21	22	48	49
24	25	83	84	36	37

Write a number on the line that is just more than the number shown :

70	71	92	93	48	49
60	61	11	12	22	23
33	34	44	45	92	93
81	82	25	26	61	62
18	19	34	35	75	76
78	79	63	64	93	94
27	28	88	89	45	46
90	91	69	70	10	11
41	42	7	78	86	87
80	81	91	92	60	61
24	25	40	41	71	72
84	85	19	20	34	35
61	62	20	21	74	75

### Short and Long Form

Write in the short form :					
50	+	3	=	(94)	
60	+	4	=	(75)	
50	+	8	=	(82)	
70	+	3	=	(56)	
70	+	9	=	(95)	
60	+	6	=	(67)	
80	+	7	=	(88)	
90	+	1	=	(93)	
90	+	9	=	(59)	
80	+	5	=	(62)	
70	+	7	=	(71)	

Write in the long form :					
94	=	90	+	4	
75	=	70	+	5	
82	=	80	+	2	
56	=	50	+	6	
95	=	90	+	5	
67	=	60	+	7	
88	=	80	+	8	
93	=	90	+	3	
59	=	50	+	9	
62	=	60	+	2	
71	=	70	+	1	

Fill in the boxes :

Ans.  $60 + 9 = 69$

$80 + 7 = 87$

$50 + 5 = 55$

$90 + 9 = 99$

$50 + 4 = 54$

$70 + 6 = 76$

$70 + 6 = 76$

$90 + 3 = 93$

$90 + 6 = 96$

$80 + 5 = 85$

$50 + 1 = 51$

$70 + 2 = 72$

$60 + 9 = 69$

$40 + 9 = 49$

$30 + 4 = 34$

$50 + 7 = 57$



## 8 Properties of 2-Digit Numbers

Fill in the blanks :

Ans. In 72, the digit 7 is in the **tens** place.

In 43, the digit 4 is in the **tens** place.

In 46, the digit 6 is in the **ones** place.

In 17, the digit 7 is in the **ones** place.

Form the 2-digit numbers in each of the following :

Ans. 22

73

34

11

Form two different 2-digit numbers with :

Ans.

4 and 6

46

64

6 and 3

63

36

4 and 8

48

84

9 and 1

91

19

5 and 7

57

75

7 and 4

74

47

8 and 5

85

58

8 and 9

89

98

Place Value of a Digit

Write the place and place value of the coloured digit in each numeral :

Ans.

Numeral

Place

Place Value

3 5

tens

3

8 6

tens

8

9 1

ones

1

5 6

tens

5

9 6

ones

6

4 3

ones

3

7 5

ones

5

6 4

tens

6

Expanded Form/Short Form

Write the following numbers in expanded form :

Ans.

$65 = 6 \text{ tens} + 5 \text{ ones}$

$= 60 + 5$

$78 = 7 \text{ tens} + 8 \text{ ones}$

$= 70 + 8$

$82 = 8 \text{ tens} + 2 \text{ ones}$

$= 80 + 2$

## Short Form

**Fill in the boxes to change the expanded form in short form :**

**Ans.**

8 tens + 3 ones =	<b>80</b>	+	<b>3</b>	=	<b>83</b>
9 tens + 5 ones =	<b>90</b>	+	<b>5</b>	=	<b>95</b>
2 tens + 7 ones =	<b>20</b>	+	<b>7</b>	=	<b>27</b>

**Circle the greater number :**

**Ans.**

13	24	32	16	13	15	45	89
50	24	14	29	18	11	24	14
29	40	48	52	45	37	35	33
22	44	55	16	21	36	14	41

**Circle the smaller number :**

**Ans.**

20	27	18	39	28	29	77	55
44	43	14	28	18	11	24	43
29	36	11	31	56	18	38	12
32	46	51	55	34	43	14	45
15	14	49	42	20	10	31	24

## Writing Numbers from Smallest to Biggest

**Arrange the following numbers in increasing order :**

**Ans.**

55, 52, 51, 54	<b>51</b>	<b>52</b>	<b>54</b>	<b>55</b>
61, 58, 64, 43	<b>43</b>	<b>58</b>	<b>61</b>	<b>64</b>
55, 42, 57, 49	<b>42</b>	<b>49</b>	<b>55</b>	<b>57</b>
89, 86, 68, 77	<b>68</b>	<b>77</b>	<b>86</b>	<b>89</b>
46, 50, 95, 56	<b>46</b>	<b>50</b>	<b>56</b>	<b>95</b>
65, 55, 32, 98	<b>32</b>	<b>55</b>	<b>65</b>	<b>98</b>

## Writing Numbers from Biggest to Smallest

Arrange the following numbers in decreasing order :

Ans.

68, 73, 96, 87	96	87	73	68
98, 93, 47, 56	98	93	56	47
72, 65, 59, 73	73	72	65	59
99, 93, 92, 94	99	94	93	92
92, 56, 70, 81	92	81	70	56
45, 63, 74, 78	78	74	63	45

Towards The Lab

Do it yourself.



## 9 Addition of 2-Digit Numbers

### Addition of Tens and Ones

Fill in the boxes :

9 tens	+	4 ones	=	90	+	4	tens	ones
			=	94			9	0
							+	4
							9	4
<hr/>								
6 tens	+	8 ones	=	60	+	8	tens	ones
			=	68			6	0
							+	8
							6	8
<hr/>								
7 tens	+	3 ones	=	70	+	3	tens	ones
			=	73			7	0
							+	3
							7	3
<hr/>								
2 tens	+	8 ones	=	20	+	8	tens	ones
			=	28			2	0
							+	8
							2	8

**Add and write the answers :**

$\begin{array}{r} 30 \\ + 4 \\ \hline 34 \end{array}$	$\begin{array}{r} 60 \\ + 9 \\ \hline 69 \end{array}$	$\begin{array}{r} 80 \\ + 6 \\ \hline 86 \end{array}$	$\begin{array}{r} 90 \\ + 3 \\ \hline 93 \end{array}$	$\begin{array}{r} 60 \\ + 7 \\ \hline 67 \end{array}$	$\begin{array}{r} 90 \\ + 8 \\ \hline 98 \end{array}$	$\begin{array}{r} 80 \\ + 7 \\ \hline 87 \end{array}$	$\begin{array}{r} 40 \\ + 4 \\ \hline 44 \end{array}$
$\begin{array}{r} 60 \\ + 5 \\ \hline 65 \end{array}$	$\begin{array}{r} 10 \\ + 9 \\ \hline 19 \end{array}$	$\begin{array}{r} 40 \\ + 9 \\ \hline 49 \end{array}$	$\begin{array}{r} 50 \\ + 6 \\ \hline 56 \end{array}$	$\begin{array}{r} 60 \\ + 9 \\ \hline 68 \end{array}$	$\begin{array}{r} 70 \\ + 2 \\ \hline 72 \end{array}$	$\begin{array}{r} 80 \\ + 1 \\ \hline 81 \end{array}$	$\begin{array}{r} 90 \\ + 3 \\ \hline 93 \end{array}$

**Try these!**

$\begin{array}{r} 74 \\ + 2 \\ \hline 76 \end{array}$	$\begin{array}{r} 38 \\ + 1 \\ \hline 39 \end{array}$	$\begin{array}{r} 43 \\ + 4 \\ \hline 47 \end{array}$	$\begin{array}{r} 55 \\ + 3 \\ \hline 58 \end{array}$	$\begin{array}{r} 64 \\ + 2 \\ \hline 66 \end{array}$	$\begin{array}{r} 91 \\ + 7 \\ \hline 98 \end{array}$
---	---	---	---	---	---

Tens and Ones

**Add 'Tens to Tens' and 'Ones to Ones' :**

$\begin{array}{r} 31 \\ + 32 \\ \hline 63 \end{array}$	$\begin{array}{r} 17 \\ + 22 \\ \hline 39 \end{array}$	$\begin{array}{r} 10 \\ + 10 \\ \hline 20 \end{array}$	$\begin{array}{r} 22 \\ + 64 \\ \hline 86 \end{array}$	$\begin{array}{r} 17 \\ + 41 \\ \hline 58 \end{array}$
$\begin{array}{r} 25 \\ + 14 \\ \hline 39 \end{array}$	$\begin{array}{r} 17 \\ + 12 \\ \hline 29 \end{array}$	$\begin{array}{r} 12 \\ + 15 \\ \hline 27 \end{array}$	$\begin{array}{r} 13 \\ + 16 \\ \hline 29 \end{array}$	$\begin{array}{r} 10 \\ + 12 \\ \hline 22 \end{array}$
$\begin{array}{r} 11 \\ + 12 \\ \hline 23 \end{array}$	$\begin{array}{r} 11 \\ + 14 \\ \hline 25 \end{array}$	$\begin{array}{r} 31 \\ + 12 \\ \hline 43 \end{array}$	$\begin{array}{r} 13 \\ + 16 \\ \hline 29 \end{array}$	$\begin{array}{r} 27 \\ + 11 \\ \hline 38 \end{array}$
$\begin{array}{r} 19 \\ + 10 \\ \hline 29 \end{array}$	$\begin{array}{r} 14 \\ + 12 \\ \hline 26 \end{array}$	$\begin{array}{r} 15 \\ + 12 \\ \hline 27 \end{array}$	$\begin{array}{r} 10 \\ + 17 \\ \hline 27 \end{array}$	$\begin{array}{r} 12 \\ + 17 \\ \hline 29 \end{array}$

**Add the following :**

T O	T O	T O	T O	T O	T O	T O
15	+ 31	= 46	51	+ 23	= 74	
T O	T O	T O	T O	T O	T O	T O
24	+ 53	= 77	14	+ 33	= 47	
T O	T O	T O	T O	T O	T O	T O
20	+ 29	= 49	24	+ 23	= 47	

## Addition of 2-Digit Numbers

**Fill in the boxes :**

Add 56 and 38

$$\begin{aligned}
 56 &= \mathbf{5} \text{ tens} + \mathbf{6} \text{ ones} \\
 38 &= \mathbf{3} \text{ tens} + \mathbf{8} \text{ ones} \\
 \hline
 \text{Sum} &= \mathbf{8} \text{ tens} + \mathbf{14} \text{ ones} \\
 &= \mathbf{9} \text{ tens} + \mathbf{4} \text{ ones} \\
 \diagdown \quad 56 + 38 &= \mathbf{94}
 \end{aligned}$$

Add 24 and 39

$$\begin{aligned}
 24 &= \mathbf{2} \text{ tens} + \mathbf{4} \text{ ones} \\
 39 &= \mathbf{3} \text{ tens} + \mathbf{9} \text{ ones} \\
 \hline
 \text{Sum} &= \mathbf{5} \text{ tens} + \mathbf{13} \text{ ones} \\
 &= \mathbf{6} \text{ tens} + \mathbf{3} \text{ ones} \\
 \diagdown \quad 24 + 39 &= \mathbf{63}
 \end{aligned}$$

### Vertical Addition

**Add the following :**

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 79 \\
 + 19 \\
 \hline
 98
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 54 \\
 + 27 \\
 \hline
 81
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 29 \\
 + 53 \\
 \hline
 82
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 53 \\
 + 38 \\
 \hline
 91
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 58 \\
 + 27 \\
 \hline
 85
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 36 \\
 + 49 \\
 \hline
 85
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 66 \\
 + 26 \\
 \hline
 92
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 27 \\
 + 68 \\
 \hline
 95
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 19 \\
 + 26 \\
 \hline
 45
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 75 \\
 + 17 \\
 \hline
 92
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 37 \\
 + 54 \\
 \hline
 91
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 56 \\
 + 25 \\
 \hline
 81
 \end{array}$$

**Add :**

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 26 \\
 + 9 \\
 \hline
 35
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 13 \\
 + 7 \\
 \hline
 20
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 22 \\
 + 9 \\
 \hline
 31
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 36 \\
 + 6 \\
 \hline
 42
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 8 \\
 + 44 \\
 \hline
 52
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 7 \\
 + 27 \\
 \hline
 34
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 15 \\
 + 15 \\
 \hline
 30
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 13 \\
 + 19 \\
 \hline
 32
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 18 \\
 + 28 \\
 \hline
 46
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 37 \\
 + 46 \\
 \hline
 83
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 25 \\
 + 25 \\
 \hline
 50
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 62 \\
 + 19 \\
 \hline
 81
 \end{array}$$

**Add :**

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 31 \\
 + 9 \\
 \hline
 40
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 73 \\
 + 8 \\
 \hline
 81
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 86 \\
 + 4 \\
 \hline
 90
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 5 \\
 + 47 \\
 \hline
 52
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 18 \\
 + 29 \\
 \hline
 47
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 35 \\
 + 35 \\
 \hline
 70
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 56 \\
 + 27 \\
 \hline
 83
 \end{array}$$

$$\begin{array}{r}
 \text{T O} \\
 \boxed{1} \\
 73 \\
 + 19 \\
 \hline
 92
 \end{array}$$

Add :

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 18 \\ + 22 \\ \hline 40 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 15 \\ + 37 \\ \hline 52 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 25 \\ + 28 \\ \hline 53 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 36 \\ + 27 \\ \hline 63 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 19 \\ + 12 \\ \hline 31 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 49 \\ + 13 \\ \hline 62 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 59 \\ + 14 \\ \hline 73 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 63 \\ + 27 \\ \hline 90 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 78 \\ + 12 \\ \hline 90 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 38 \\ + 41 \\ \hline 79 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 26 \\ + 19 \\ \hline 45 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 64 \\ + 19 \\ \hline 83 \end{array}$$

Add :

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 35 \\ + 9 \\ \hline 44 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 74 \\ + 8 \\ \hline 82 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \square \\ 85 \\ + 4 \\ \hline 89 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 4 \\ + 47 \\ \hline 51 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 17 \\ + 29 \\ \hline 46 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 33 \\ + 35 \\ \hline 68 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 54 \\ + 27 \\ \hline 81 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 72 \\ + 19 \\ \hline 91 \end{array}$$

Story Sums

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 34 \\ + 47 \\ \hline 81 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 54 \\ + 38 \\ \hline 92 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 64 \\ + 26 \\ \hline 90 \end{array}$$

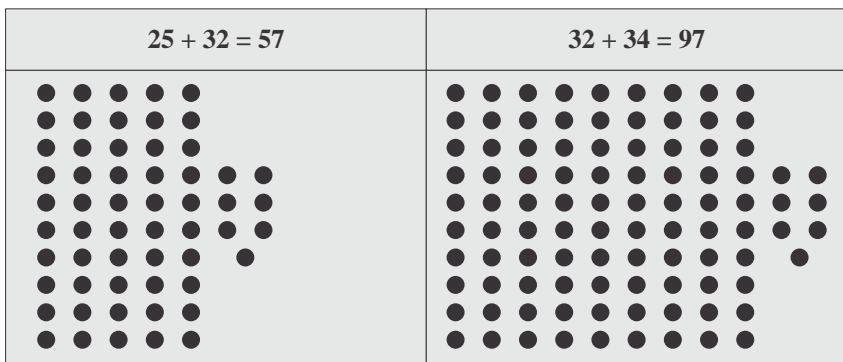
$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 66 \\ + 19 \\ \hline 85 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 38 \\ + 54 \\ \hline 92 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \boxed{1} \\ 53 \\ + 28 \\ \hline 81 \end{array}$$

Towards The Lab




Now, try these out :








# 10 Subtraction of 2-Digit Numbers




Fill in the boxes :

From  taken away  is   
 3 tens - 1 ten = 2 tens

3	0	
-	1	0
2		0

From  taken away  is   
 6 tens - 5 tens = 1 ten

6	0	
-	5	0
1		0

From  taken away  is   
 8 tens - 5 tens = 3 tens

8	0	
-	5	0
3		0

Subtract and write the answer in the boxes :

4	0	
-	1	0
3		0

5	0	
-	2	0
3		0

6	0	
-	3	0
3		0

8	0	
-	4	0
4		0

3	0	
-	1	0
2		0

2	0	
-	1	0
1		0

4	0	
-	2	0
2		0

9	0	
-	6	0
3		0

5	0	
-	3	0
2		0

9	0	
-	1	0
8		0

8	0	
-	7	0
1		0

2	0	
-	2	0
0		0

8	0	
-	3	0
5		0

3	0	
-	2	0
1		0

8	0	
-	6	0
2		0

6	0	
-	3	0
3		0

Try these!

5	5	
-	3	
5		2

1	8	
-	3	
1		5

6	3	
-	2	
6		1

4	5	
-	1	3
3		2

4	4	
-	2	2
2		2

9	1	
-	7	0
2		1

## Tens and Ones

**Subtract :**

$38 = 3 \text{ tens} + 8 \text{ ones}$ $- 24 = 2 \text{ tens} + 4 \text{ ones}$ <hr style="border: 0.5px solid black;"/> $14 = 1 \text{ tens} + 4 \text{ ones}$	$49 = 4 \text{ tens} + 9 \text{ ones}$ $- 27 = 2 \text{ tens} + 7 \text{ ones}$ <hr style="border: 0.5px solid black;"/> $22 = 2 \text{ tens} + 2 \text{ ones}$
$87 = 8 \text{ tens} + 7 \text{ ones}$ $- 64 = 6 \text{ tens} + 4 \text{ ones}$ <hr style="border: 0.5px solid black;"/> $23 = 2 \text{ tens} + 3 \text{ ones}$	$78 = 7 \text{ tens} + 8 \text{ ones}$ $- 44 = 4 \text{ tens} + 4 \text{ ones}$ <hr style="border: 0.5px solid black;"/> $34 = 3 \text{ tens} + 4 \text{ ones}$

## Vertical Subtraction

**Subtract the following :**

T	O
6	6
-	3 4
3	2

T	O
3	8
-	1 2
2	6

T	O
5	7
-	1 3
4	4

T	O
5	8
-	1 3
4	5

T	O
5	5
-	4 0
1	5

T	O
8	7
-	4 3
4	4

T	O
5	5
-	3 3
2	2

T	O
3	5
-	1 1
2	4

## Story Sums

T	O
4	7
-	2 0
2	7

T	O
9	8
-	8 4
1	4

T	O
5	6
-	3 2
2	4

T	O
8	6
-	3 3
5	3

T	O
7	8
-	5 7
2	1

T	O
6	8
-	1 8
5	0

## Subtraction with Borrowing

**Subtract the following :**

T	O
<span style="border: 1px solid black; padding: 1px;">2</span>	<span style="border: 1px solid black; padding: 1px;">17</span>
<del>3</del>	<del>7</del>
-	2 8
0	9

T	O
<span style="border: 1px solid black; padding: 1px;">6</span>	<span style="border: 1px solid black; padding: 1px;">13</span>
<del>7</del>	<del>3</del>
-	3 6
3	7

T	O
<span style="border: 1px solid black; padding: 1px;">8</span>	<span style="border: 1px solid black; padding: 1px;">12</span>
<del>9</del>	<del>2</del>
-	4 5
4	7

T	O
<span style="border: 1px solid black; padding: 1px;">7</span>	<span style="border: 1px solid black; padding: 1px;">12</span>
<del>8</del>	<del>2</del>
-	5 3
2	9

T	O
<span style="border: 1px solid black; padding: 1px;">6</span>	<span style="border: 1px solid black; padding: 1px;">11</span>
<del>7</del>	<del>1</del>
-	4 3
2	8

T	O
<span style="border: 1px solid black; padding: 1px;">6</span>	<span style="border: 1px solid black; padding: 1px;">15</span>
<del>7</del>	<del>5</del>
-	4 6
2	9

T	O
<span style="border: 1px solid black; padding: 1px;">2</span>	<span style="border: 1px solid black; padding: 1px;">14</span>
<del>3</del>	<del>4</del>
-	1 8
1	6

T	O
<span style="border: 1px solid black; padding: 1px;">2</span>	<span style="border: 1px solid black; padding: 1px;">13</span>
<del>4</del>	<del>3</del>
-	3 5
0	8

T	O
<span style="border: 1px solid black; padding: 1px;">7</span>	<span style="border: 1px solid black; padding: 1px;">13</span>
<del>8</del>	<del>3</del>
-	4 4
3	9

T	O
<span style="border: 1px solid black; padding: 1px;">8</span>	<span style="border: 1px solid black; padding: 1px;">11</span>
<del>9</del>	<del>1</del>
-	3 4
5	3

T	O
3	11
<del>4</del>	<del>1</del>
- 2	8
1	3

T	O
5	14
<del>6</del>	<del>4</del>
- 2	7
3	7

T	O
7	11
<del>8</del>	<del>1</del>
- 4	5
3	6

T	O
6	13
<del>7</del>	<del>3</del>
- 5	5
1	8

T	O
4	13
<del>5</del>	<del>3</del>
- 3	4
1	9

Subtract :

T	O
1	16
<del>2</del>	<del>6</del>
- 9	
1	7

T	O
0	13
<del>1</del>	<del>3</del>
- 7	
0	6

T	O
1	12
<del>2</del>	<del>2</del>
- 9	
1	3

T	O
□	□
<del>3</del>	<del>6</del>
- 6	
3	0

T	O
□	□
<del>9</del>	<del>8</del>
- 4	4
5	4

T	O
□	□
<del>3</del>	<del>7</del>
- 2	7
1	0

T	O
5	14
<del>4</del>	<del>5</del>
- 1	7
2	8

T	O
7	11
<del>3</del>	<del>3</del>
- 1	9
1	4

T	O
□	□
<del>4</del>	<del>8</del>
- 2	8
2	0

T	O
4	13
<del>7</del>	<del>5</del>
- 1	7
5	8

T	O
1	16
<del>2</del>	<del>6</del>
- 1	9
0	7

T	O
□	□
4	8
- 3	6
1	2

T	O
7	15
<del>8</del>	<del>5</del>
- 3	8
4	7

T	O
□	□
9	7
- 4	6
5	1

T	O
□	□
2	5
- 2	5
0	0

Subtract :

T	O
2	11
3	1
- 9	
2	2

T	O
6	13
7	3
- 8	
6	5

T	O
□	□
8	6
- 4	
8	2

T	O
4	15
5	5
- 4	7
0	8

T	O
3	18
4	8
- 2	9
1	9

T	O
□	□
3	5
- 3	5
0	0

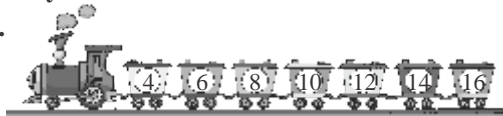
T	O
4	16
5	6
- 2	7
2	9

T	O
6	13
7	3
- 1	9
5	4

## 11 Skip Counting

Count by 2's on the number train :

Ans.



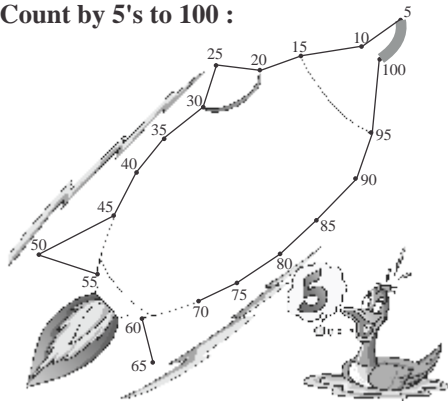
Skip count by 3's and fill in the bricks :

Ans.

3	6	9	12	15	18
27	30	33	36	39	42
51	54	57	60	63	66
63	66	69	72	75	78

Connect the dots. Count by 5's to 100 :

Ans.



## 12 Multiplication

Fill in :

Ans.



Number of flowers  
 $2 + 2 = 4.$   
 2 twos are 4.  
 $2 \times 2 = 4.$



Number of caps  
 $3 + 3 + 3 = 9.$   
 3 **three** are 9.  
 $3 \times 3 = 9.$



Number of carrots  
 $2 + 2 + 2 = 6.$   
 2 twos are 6.  
 $2 \times 3 = 6.$



Number of flowers  
 $5 + 5 = 10.$   
 2 **fives** are 10.  
 $2 \times 5 = 10.$



Number of leaves  
 $8 + 8 = 16.$   
 8 **twos** are 16.  
 $8 \times 2 = 16.$

**Write as multiplication :**

$$\begin{aligned}\text{Ans. } 3 + 3 + 3 + 3 &= 3 \times 4 = 12 \\ 5 + 5 &= 5 \times 2 = 10 \\ 8 + 8 + 8 &= 8 \times 3 = 24 \\ 2 + 2 + 2 + 2 &= 2 \times 4 = 8 \\ 4 + 4 &= 4 \times 2 = 8 \\ 3 + 3 + 3 + 3 + 3 &= 3 \times 5 = 15 \\ 6 + 6 + 6 + 6 + 6 + 6 &= 6 \times 6 = 36 \\ 7 + 7 &= 7 \times 2 = 14 \\ 9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 &= 9 \times 8 = 72 \\ 5 + 5 + 5 + 5 + 5 + 5 + 5 &= 5 \times 7 = 35 \\ 10 + 10 + 10 + 10 + 10 + 10 &= 10 \times 6 = 60 \\ 8 + 8 + 8 + 8 + 8 + 8 + 8 + 8 + 8 &= 8 \times 9 = 72\end{aligned}$$

**Write as addition :**

$$\begin{aligned}\text{Ans. } 4 \times 7 &= 4 + 4 + 4 + 4 + 4 + 4 + 4 &= 28 \\ 2 \times 5 &= 2 + 2 + 2 + 2 + 2 &= 10 \\ 5 \times 2 &= 5 + 5 &= 10 \\ 5 \times 9 &= 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 &= 45 \\ 6 \times 8 &= 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 &= 48 \\ 6 \times 8 &= 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 &= 48 \\ 3 \times 0 &= 0 &= 0 \\ 7 \times 1 &= 7 + 0 &= 7 \\ 8 \times 2 &= 8 + 8 &= 16\end{aligned}$$

**Fill in :**

**Ans.**

$1 \times 9 = 9$

$2 \times 8 = 16$

$3 \times 7 = 21$

$4 \times 8 = 32$

$3 \times 9 = 27$

$5 \times 4 = 20$

$5 \times 5 = 25$

$1 \times 7 = 7$

$9 \times 4 = 36$

$4 \times 7 = 28$

$2 \times 8 = 16$

$4 \times 4 = 16$

$3 \times 8 = 24$

$4 \times 6 = 24$

$5 \times 8 = 40$

$10 \times 4 = 40$

$5 \times 9 = 45$

$3 \times 3 = 9$

$4 \times 7 = 28$

$3 \times 6 = 18$

$2 \times 6 = 12$

$5 \times 7 = 35$

$9 \times 5 = 45$

$4 \times 9 = 36$

$3 \times 4 = 12$

How many?

Ans.



4 fans.

Each has 3 blades.

$4 \times 3 = 12$  blades in all.



3 boxes.

Each has 6 colours.

$3 \times 6 = 18$  colours in all.



2 flowers.

Each has 5 petals.

$2 \times 5 = 10$  petals in all.

How many?

Ans.



4 cats.

Each has 4 legs.

$4 \times 4 = 16$  legs in all.



3 plates.

Each has 5 biscuits.

$3 \times 5 = 15$  biscuits in all.



3 octopus.

Each has 8 legs.

$3 \times 8 = 24$  legs in all.



5 rabbits.

Each has 2 ears.

$3 \times 2 = 6$  ears in all.



3 bikes.

Each has 2 wheels.

$3 \times 2 = 6$  wheels in all.



4 pots.

Each has 8 flowers.

$4 \times 8 = 32$  flowers in all.

Fill in :

Ans.

$5 \times 6 = 30$

$3 \times 10 = 30$

$10 \times 4 = 40$

$4 \times 10 = 40$

$4 \times 3 = 12$

$3 \times 4 = 12$

$3 \times 10 = 30$

$10 \times 3 = 30$

Multiply :

Ans.

$$\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 8 \\ \times 1 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$$

$$\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 8 \\ \times 2 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$$

### Multiplication by 0 and 1

Fill in the circles :

Ans.

$12 \times 1 = 12$

$16 \times 1 = 16$

$3 \times 0 = 0$

$4 \times 1 = 4$

$9 \times 1 = 9$

$3 \times 1 = 3$

$17 \times 1 = 17$

$14 \times 1 = 14$

$10 \times 1 = 10$

$12 \times 1 = 12$

$12 \times 1 = 12$

$12 \times 1 = 12$

$0 \times 14 = 14 \times 0 = 0$

$1 \times 7 = 7 \times 1 = 7$

$4 \times 0 = 0 \times 4 = 0$

$0 \times 12 = 12 \times 0 = 0$

$0 \times 10 = 0 \times 10 = 0$

$1 \times 6 = 6 \times 1 = 6$

### Story Sums

Ans.

$$\begin{array}{r} 2 \text{ wheels} \\ \times 8 \text{ wheels} \\ \hline 16 \text{ wheels} \end{array}$$

$$\begin{array}{r} 5 \text{ pencils} \\ \times 4 \text{ pencils} \\ \hline 20 \text{ pencils} \end{array}$$

$$\begin{array}{r} 3 \text{ wheels} \\ \times 4 \text{ wheels} \\ \hline 12 \text{ wheels} \end{array}$$

$$\begin{array}{r} 8 \text{ balloons} \\ \times 5 \text{ balloons} \\ \hline 40 \text{ balloons} \end{array}$$

$$\begin{array}{r} 4 \text{ legs} \\ \times 7 \text{ legs} \\ \hline 28 \text{ legs} \end{array}$$

$$\begin{array}{r} 2 \text{ feet} \\ \times 4 \text{ feet} \\ \hline 8 \text{ feet} \end{array}$$

## 13 Division

Fill in the place holders :

Ans.

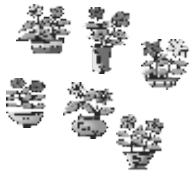


How many pens are there in all? 20

These pens are divided into how many groups? 5

$20 \div 5 = \quad \text{or} \quad \begin{array}{r} 4 \\ 5 \overline{) 20} \end{array}$

How many pens are there in each group? 4

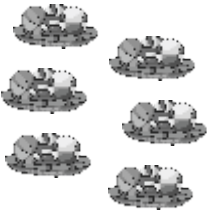


How many flowers are there in all? 12

How many vases are made up of these flowers? 6

$12 \div 6 = 2$  or  $\frac{2}{6}$

Each vase contains 2 flowers.  $6 \overline{) 12}$



There are 18 balls in all?

These balls are divided into how many groups? 6

$18 \div 6 = 3$  or  $\frac{3}{6}$

Each tray contains 3 balls.  $6 \overline{) 18}$



There are 16 mangoes.

Encircle these mangoes into 4 equal groups.

$\setminus 16 \div 4 = 4$  or  $\frac{4}{4}$

Each group has 4 mangoes.  $4 \overline{) 16}$

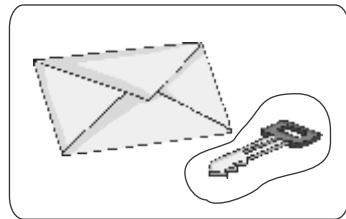
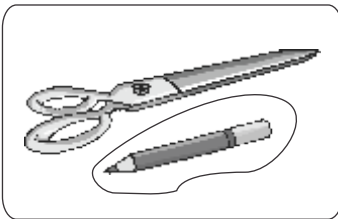
## 14 Comparison

### Measurement

Look at the object shown below :

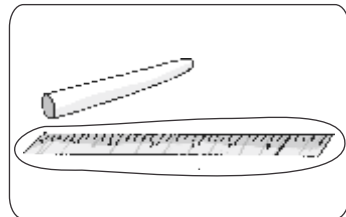
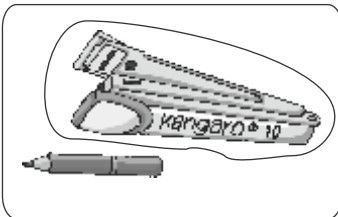
Ring (O) the one that is shorter

Ans.



Ring(O)the one that is longer :

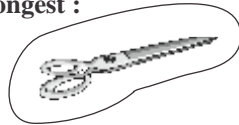
Ans.





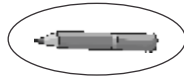
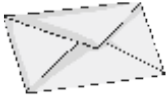
Ring(O)the one that is the longest :

Ans.



Ring(O)the one that is the shortest :

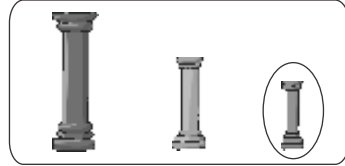
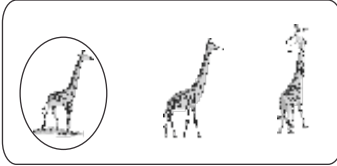
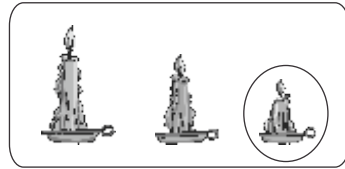
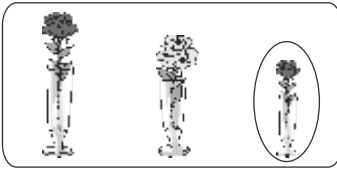
Ans.



Look at the object shown below :

Ring (O) the shortest object

Ans.



Tick (3) the right choice :

The candle is (taller, shorter) than the Stop sign.

Taller

Shorter

The flower and vase are (taller, shorter) than the candle.

Taller

Shorter



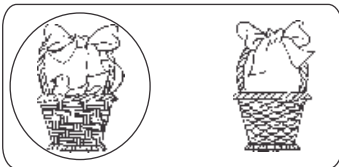
Tick (3) the right choice.



The whale is (light / heavy)<sup>3</sup>

The balloon is (light / heavy)<sup>3</sup>

Ring (O) the full basket :



Ring (O) the empty vase :



Messuring Length

Do the following :

Ans. Do it yourself

Answer the following questions :

- Ans. 1. Manya  
 2. B  
 3. A + B Sum = 14 cm  
     8 cm + 6 cm  
 4.  $38 - 23 = 15$  cm  
 5. Do yourself

Measuring Weight

Fill in the blanks :



4 mangoes weigh as much as 8 oranges.



4 books weigh as much as 5 apples.



10 pens weigh as much as 1 notebook.



2 mobiles weigh as much as 10 CD's.



10 biscuits weigh as much as 1 chocolate.

Measuring Capacity

Name some liquids which are measured in litre :

- Ans. Water                      Petrol                      Milk  
        Diesel                      Kerosene                Cold drink

15 Money

Match

Ans.

Write the values :

Ans.   
          50 p                      25 p                      25                      250

Fill in the blanks :

- Ans. Five rupees is written as    ` 5  
 Ten rupees is written as        ` 10  
 Sixty paise is written as        60 p

Join the money to the object you can buy :

Ans.



$$5 \text{ rupees} + 5 \text{ rupees} = 10 \text{ rupees}$$



$$50 \text{ paise} + 50 \text{ paise} = 1 \text{ rupees}$$



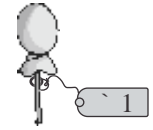
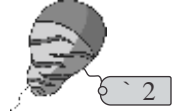
$$2 \text{ rupees} + 2 \text{ rupees} + 1 \text{ rupees} = 5 \text{ rupees}$$



$$1 \text{ rupees} + 1 \text{ rupees} = 2 \text{ rupees}$$



$$5 \text{ rupees} + 1 \text{ rupees} = 6 \text{ rupees}$$



Fill in the boxes :

Ans.

$$\text{₹ } 10 = \text{₹ } 5 + \text{₹ } 5$$

$$\text{₹ } 100 = \text{₹ } 50 + \text{₹ } 50$$

$$\text{₹ } 3 = \text{₹ } 2 + \text{₹ } 1$$

$$\text{₹ } 70 = \text{₹ } 50 + \text{₹ } 20$$

$$\text{₹ } 20 = \text{₹ } 10 + \text{₹ } 10$$

$$\text{₹ } 500 = \text{₹ } 100 + \text{₹ } 400$$

$$\text{₹ } 8 = \text{₹ } 5 + \text{₹ } 3$$

$$\text{₹ } 2 = \text{₹ } 1 + \text{₹ } 1$$

$$\text{₹ } 15 = \text{₹ } 5 + \text{₹ } 10$$

$$\text{₹ } 400 = \text{₹ } 300 + \text{₹ } 100$$

$$\text{₹ } 5 = \text{₹ } 1 + \text{₹ } 4$$

$$\text{₹ } 700 = \text{₹ } 300 + \text{₹ } 400$$

Answer the following questions :

Ans. 1. 100

2. 5

3. 10

4. 10

5. 10

# 16 Time

Tick (3) the correct word :

- Ans. 1. I go to school in the <sup>3</sup>morning/evening.  
 2. I eat my breakfast in the evening/<sup>3</sup>morning.  
 3. We eat our lunch in the <sup>3</sup>day/night.  
 4. We eat our dinner in the day/<sup>3</sup>night.  
 5. I play in the morning/<sup>3</sup>evening.  
 6. We can see the stars in the day/<sup>3</sup>night.  
 7. I sleep in the day/<sup>3</sup>night.  
 8. The moon is seen in the <sup>3</sup>night/day.

Read aloud and write the time shown in the given clocks :

Ans.



6 o'clock 6:00



8 o'clock 8:00



9 o'clock 9:00

Write the correct time under each clock :

Ans.



4:00



9:00



10:00



6:00



1:00



12:00



8:00



3:00

The teacher will speak out the different times. First the students will write the time in each box, then they will draw the hands of the clock to the corresponding written time :

Ans. Do yourself.

Fill in the blanks :

Ans. **January** is the first month of the year.

**September** is the ninth month of the year.

**Saturday** is the last day of the week.  
**Wednesday** is the fourth day of the week.  
 There are **7** days in a year.  
 There are **12** months in a year.

## 17 Data Handling

**Colour the circles yellow, triangles red, rectangles blue and squares green :**

**Ans.** Do yourself.

**Count the shapes in the picture given above and write their numbers in boxes below :**

**Ans.** Do yourself.

**Count and write :**

**Ans.** How many children have red pens?

10

How many children have blue pens?

10

How many children have pencils?

5

**See, count and write the number of animals :**

**Ans.**



9



5



8



7



5



4

**Count the number of letters in each name-word :**

**Ans. Names**

**No. of Letters**

V	I	B	H	A				5
M	U	K	U	L				5
B	A	S	A	N	T			6
M	E	G	H	A				5
K	O	M	A	L				5
S	H	O	U	R	Y	A		7
P	A	N	K	A	J			6
R	A	V	I					4
M	O	N	I					4
A	S	H	I	S	H			6

How many names have 4 letters? **2**

How many names have 5 letters? **4**

How many names have 6 letters? **3**

How many names have 7 letters? **1**

How many times A comes in all the names taken together? **10**

How many times O comes in all the names taken together? **3**

# 18 Patterns

Extend the sequence :

Ans.

T	⊥	T	⊥	T	⊥	T	⊥
	○		○		○		○
↑	↓	↑	↓	↑	↓	↑	↓
^	v	^	v	^	v	^	v

What comes next in the sequence?

Ans.

○	☀	☀	○	☀	☀	○	☀
⤴	⤵	⤴	⤵	⤴	⤵	⤴	⤵
💧	🍲	💧	🍲	💧	🍲	💧	🍲
🌸	🍃	🌸	🍃	🌸	🍃	🌸	🍃

Patterns in Shape

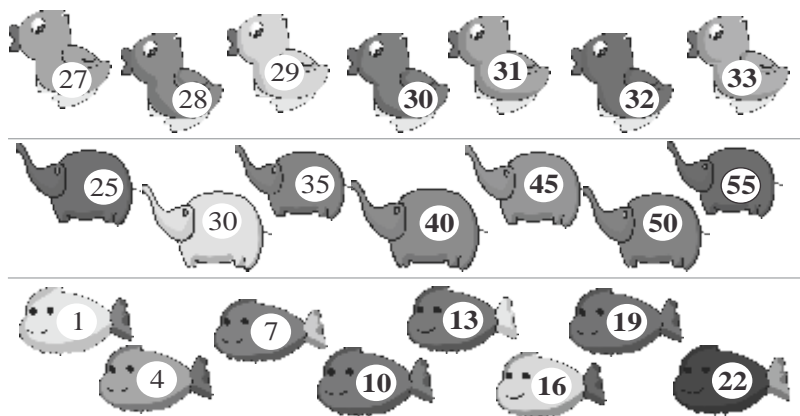
Fill in the boxes in sequence :

Ans.

🍃	🌸	🍃	🌸	🍃	🌸	🍃	🌸
○	△	▭	○	△	▭	○	△

Complete the number pattern :

Ans.



### Model Test Paper-1

**A. Tick (3) the correct option :**

Ans. 1. a.    2. b    3. c    4. a

**B. Put a tick (3) for the correct word :**

Ans.	Solids	Rolls	Slides
a.	Chalk	3	
b.	Duster		3
c.	Ball	3	

**C. Write the number-names :**

Ans. a. 28    **Twenty Eight**                      b. 37                      **Thirty Seven**

**D. Add these numbers :**

Ans. a.	$\begin{array}{r} 4 \\ 2 \\ + 3 \\ \hline 9 \end{array}$	b.	$\begin{array}{r} 1 \\ 3 \\ + 4 \\ \hline 8 \end{array}$	c.	$\begin{array}{r} 2 \\ 3 \\ + 3 \\ \hline 8 \end{array}$	d.	$\begin{array}{r} 1 \\ 4 \\ + 1 \\ \hline 6 \end{array}$
---------	--	----	--	----	--	----	--

**E. Counting from the right :**

Ans. Do yourself.

**F. Counting from the right :**

Ans. a. In 86, the digit 6 is in the **ones** place.  
 b. In 17, the digit 1 is in the **tens** place.

### Model Test Paper-2

**A. Tick (3) the correct option :**

Ans. 1. b    2. b    3. a    4. a    5. b    6. a

**B. Fill in the blanks :**

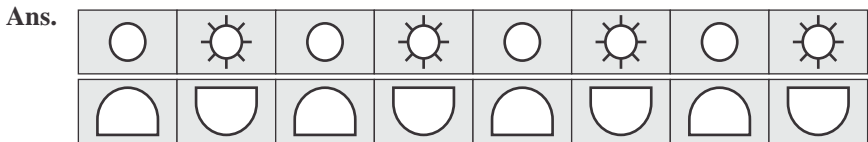
- Ans.**
- $5 \times 3 = 15$
  - $7 \times 4 = 28$
  - January** is the first month of the year.
  - Wednesday** is the fourth day of the week.
  - There are **12** months in a year.

**C. Skip count by 5's and fill in the blanks :**

**Ans.**

a.	5	<b>10</b>	15	<b>20</b>	<b>25</b>	<b>30</b>
b.	30	<b>35</b>	<b>40</b>	<b>45</b>	50	<b>55</b>

**D. What comes next in the sequence?**





# 1 Number and Numeration

Write 1 to 100 :

Ans.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100




































Write the number names :

Ans.

25	Twenty-five	7	Seven	19	Nineteen
4	Four	14	Fourteen	12	Twelve
36	Thirty-six	28	Twenty-eight	15	Fifteen
43	Forty-three	17	Seventeen	50	Fifty

Carry on the pattern :

Ans.

						
15	17	19	21	23	25	27
						
28	30	32	34	36	38	40
						
44	43	42	41	40	39	38
						
20	30	40	50	60	70	80
						
15	20	25	30	35	40	45

**Write in words :**

Ans.	60	Sixty	70	Seventy	80	Eighty
	53	Fifty-three	66	Sixty-six	73	Seventy-three
	78	Seventy-eight	69	Sixty-nine	34	Thirty-four
	90	Ninety	92	Ninety-two	100	Hundred

**Write what comes before and after :**

Ans.	8	9	10	69	70	71	13	14	15	18	19	20
	33	34	35	21	22	23	42	43	44	55	56	57
	29	30	31	58	59	60	66	67	68	77	78	79
	44	45	46	49	50	51	88	89	90	94	95	96

**Write the number between them :**

Ans.	10	11	12	14	15	16	19	20	21	25	26	27
	32	33	34	29	30	31	38	39	40	51	52	53
	56	57	58	62	63	64	64	65	66	70	71	72
	67	68	69	84	85	86	93	94	95	97	98	99

**Fill in the blanks :**

- Ans. a. The number before 23 is **22**.  
c. The number before 70 is **69**.  
e. The number before 61 is **60**.  
g. 97 is between 96 and **98**.  
i. **20** is between 19 and 21.
- b. The number after 39 is **40**.  
d. The number after **42** is 43.  
f. 34 is between **33** and 35.  
h. **69** is between 68 and 70.

## Bigger and Smaller

### Exercise

**1 Circle the bigger number :**

- a. 17      (28)      b. 19      (91)      c. 9      (21)  
d. 56      (65)      e. (41)      14      f. (86)      82  
g. 68      (86)      h. (52)      25      i. (96)      69

**2 Circle the smaller number :**

- a. (72)      79      b. 81      (63)      c. (51)      55  
d. 81      (5)      e. 36      (29)      f. (8)      32  
g. (87)      89      h. (22)      41      i. (4)      14

**3. Circle the biggest number and put a tick (3) on the smallest number :**

- a. 73      14      (23)      b. 173      26      (43)  
c. 90      293      (98)      d. 58      (85)      83

e.  $57 < 52 < 3$  (59)

f.  $31 < 3 < 7$  (42)

g. (42)  $24 < 3 < 25$

h. (65)  $22 < 14 < 3$

i.  $13 < 3 < 28$  (89)

### Greater Than and Less Than

#### Exercise

**Put > or < sign in the box :**

Ans. a.  $58 < 72$

b.  $68 > 40$

c.  $1 < 63$

d.  $45 > 33$

e.  $7 < 41$

f.  $9 < 24$

g.  $92 > 29$

h.  $18 < 51$

i.  $90 > 35$

j.  $24 < 36$

### Ascending and Descending Order

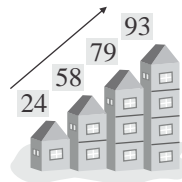
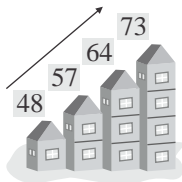
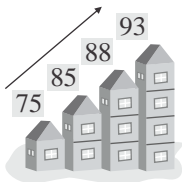
#### Exercise

**1. Arrange in ascending order :**

Ans. a.  $93, 88, 75, 85$

b.  $73, 64, 48, 57$

c.  $93, 79, 24, 58$

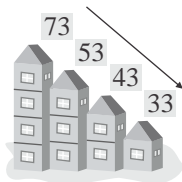


**2. Arrange in descending order :**

Ans. a.  $43, 53, 73, 33$

b.  $32, 18, 81, 23$

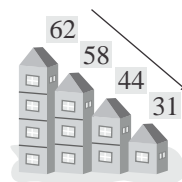
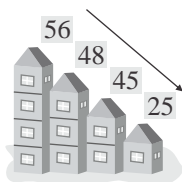
c.  $28, 82, 31, 64$



d.  $25, 45, 56, 48$

e.  $30, 58, 85, 27$

f.  $58, 62, 31, 44$



## Forming Numbers

### Exercise

**Make the bigger and smaller numbers using the two digits :**

**Ans.** a.  $64 > 46$     b.  $92 > 29$     c.  $71 > 17$     d.  $74 > 47$

## Place Value

### Exercise

**Fill in the blanks :**

- Ans.** a. The digit in the tens place of 19 is **1**. Its place value is **10**.  
 b. The digit in the ones place of 19 is **9**. Its place value is **9**.  
 c. The digit in the ones place of 27 is **7**. Its place value is **7**.  
 d. The digit in the tens place of 27 is **2**. Its place value is **20**.  
 e. The place value of 6 in 63 is **60**. The place value of 3 in 63 is **3**.  
 f. The place value of 8 in 98 is **8**. The place value of 9 in 98 is **90**.  
 g. In 35, the place value of 3 is **30**, and the place value of 5 is **5**.  
 h. In 72, the place value of 2 is **2**, and the place value of 7 is **70**.

## Odd and Even Numbers

### Exercise

**1. Write the odd numbers between :**

**Ans.** a. 17, 19, 21    b. 25, 27, 29    c. 87, 89, 91    d. 53, 55, 57

**2. Write the even numbers between :**

**Ans.** a. 42, 44, 46    b. 36, 38, 40    c. 64, 66, 68    d. 78, 80, 82

## Addition

### Exercise

**Add**

**Ans.**

$\begin{array}{r} 2 \\ + 3 \\ \hline 5 \end{array}$	$\begin{array}{r} 1 \\ + 8 \\ \hline 9 \end{array}$	$\begin{array}{r} 1 \\ + 9 \\ \hline 10 \end{array}$	$\begin{array}{r} 2 \\ + 5 \\ \hline 7 \end{array}$	$\begin{array}{r} 2 \\ + 0 \\ \hline 2 \end{array}$	$\begin{array}{r} 2 \\ + 8 \\ \hline 10 \end{array}$	$\begin{array}{r} 2 \\ + 9 \\ \hline 11 \end{array}$	$\begin{array}{r} 3 \\ + 3 \\ \hline 6 \end{array}$	$\begin{array}{r} 3 \\ + 4 \\ \hline 7 \end{array}$
$\begin{array}{r} 3 \\ + 6 \\ \hline 9 \end{array}$	$\begin{array}{r} 3 \\ + 7 \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ + 9 \\ \hline 12 \end{array}$	$\begin{array}{r} 4 \\ + 4 \\ \hline 8 \end{array}$	$\begin{array}{r} 4 \\ + 6 \\ \hline 10 \end{array}$	$\begin{array}{r} 4 \\ + 7 \\ \hline 11 \end{array}$	$\begin{array}{r} 4 \\ + 8 \\ \hline 12 \end{array}$	$\begin{array}{r} 4 \\ + 9 \\ \hline 13 \end{array}$	$\begin{array}{r} 5 \\ + 8 \\ \hline 13 \end{array}$
$\begin{array}{r} 5 \\ + 7 \\ \hline 12 \end{array}$	$\begin{array}{r} 5 \\ + 9 \\ \hline 14 \end{array}$	$\begin{array}{r} 5 \\ + 5 \\ \hline 10 \end{array}$	$\begin{array}{r} 6 \\ + 5 \\ \hline 11 \end{array}$	$\begin{array}{r} 6 \\ + 8 \\ \hline 14 \end{array}$	$\begin{array}{r} 6 \\ + 9 \\ \hline 15 \end{array}$	$\begin{array}{r} 7 \\ + 5 \\ \hline 12 \end{array}$	$\begin{array}{r} 7 \\ + 7 \\ \hline 14 \end{array}$	$\begin{array}{r} 7 \\ + 8 \\ \hline 15 \end{array}$
$\begin{array}{r} 7 \\ + 9 \\ \hline 16 \end{array}$	$\begin{array}{r} 8 \\ + 8 \\ \hline 16 \end{array}$	$\begin{array}{r} 8 \\ + 9 \\ \hline 17 \end{array}$	$\begin{array}{r} 9 \\ + 5 \\ \hline 14 \end{array}$	$\begin{array}{r} 9 \\ + 9 \\ \hline 18 \end{array}$	$\begin{array}{r} 10 \\ + 5 \\ \hline 15 \end{array}$	$\begin{array}{r} 12 \\ + 7 \\ \hline 19 \end{array}$	$\begin{array}{r} 13 \\ + 6 \\ \hline 19 \end{array}$	$\begin{array}{r} 14 \\ + 5 \\ \hline 19 \end{array}$

## Addition of Tens

### Exercise

#### Fill in the blanks :

**Ans.** 1 ten + 1 ten = 2 tens = 20

2 tens + 2 tens = 4 tens = 40

4 tens + 1 ten = 5 tens = 50

3 tens + 2 tens = 5 tens = 50

10 + 10 = 20

10 + 30 = 40

20 + 10 = 30

20 + 20 = 40

30 + 30 = 60

30 + 20 = 50

40 + 20 = 60

40 + 40 = 80

50 + 20 = 70

60 + 30 = 90

50 + 50 = 100

70 + 30 = 100

40 + 30 = 70

20 + 40 = 60

40 + 50 = 90

20 + 70 = 90

## Addition of 2-Digit Numbers

### Exercise

#### 1. Add :

**Ans.**

T	O
2	2
+	7
2	9

T	O
4	0
+	6
4	6

T	O
	5
+	8 2
8	7

T	O
	3
+	6 6
6	9

T	O
9	0
+	4
9	4

1	5
+	1 3
2	8

3	4
+	2 5
5	9

4	3
+	5 4
9	7

5	1
+	3 8
8	9

2	4
+	4 2
6	6

6	0
+	3 2
9	2

7	8
+	2 0
9	8

8	7
+	1 1
9	8

5	0
+	4 0
9	0

3	6
+	6 3
9	9

#### 2. Add the following :

**Ans.**

12 + 25 = 37

23 + 22 = 45

30 + 15 = 45

43 + 14 = 57

33 + 44 = 77

53 + 40 = 93

64 + 25 = 89

72 + 17 = 89

62 + 24 = 86

81 + 18 = 99

75 + 22 = 97

51 + 36 = 87

## Word Problems

2. 

2	4
+	4 2
6	6

3. 

2	4
+	4 2
6	6

4. 

2	4
+	4 2
6	6

48 crayons

53 birds

89 toffees

5. 

2	4
+	4 2
6	6

6. 

2	4
+	4 2
6	6

7. 

2	4
+	4 2
6	6

49 balloons

59 marbles

89 monkeys

## Subtraction

### Exercise

#### Subtract :

Ans.	$\begin{array}{r} 8 \\ - 2 \\ \hline 6 \end{array}$	$\begin{array}{r} 9 \\ - 8 \\ \hline 1 \end{array}$	$\begin{array}{r} 7 \\ - 5 \\ \hline 2 \end{array}$	$\begin{array}{r} 8 \\ - 3 \\ \hline 5 \end{array}$	$\begin{array}{r} 6 \\ - 0 \\ \hline 6 \end{array}$	$\begin{array}{r} 5 \\ - 2 \\ \hline 3 \end{array}$	$\begin{array}{r} 4 \\ - 3 \\ \hline 1 \end{array}$	$\begin{array}{r} 3 \\ - 3 \\ \hline 0 \end{array}$	$\begin{array}{r} 8 \\ - 5 \\ \hline 3 \end{array}$
	$\begin{array}{r} 18 \\ - 2 \\ \hline 16 \end{array}$	$\begin{array}{r} 17 \\ - 4 \\ \hline 13 \end{array}$	$\begin{array}{r} 16 \\ - 5 \\ \hline 11 \end{array}$	$\begin{array}{r} 18 \\ - 7 \\ \hline 11 \end{array}$	$\begin{array}{r} 17 \\ - 5 \\ \hline 12 \end{array}$	$\begin{array}{r} 18 \\ - 6 \\ \hline 12 \end{array}$	$\begin{array}{r} 19 \\ - 7 \\ \hline 12 \end{array}$	$\begin{array}{r} 15 \\ - 4 \\ \hline 11 \end{array}$	$\begin{array}{r} 17 \\ - 1 \\ \hline 16 \end{array}$
	$\begin{array}{r} 17 \\ - 6 \\ \hline 11 \end{array}$	$\begin{array}{r} 11 \\ - 1 \\ \hline 10 \end{array}$	$\begin{array}{r} 19 \\ - 6 \\ \hline 13 \end{array}$	$\begin{array}{r} 18 \\ - 3 \\ \hline 15 \end{array}$	$\begin{array}{r} 18 \\ - 5 \\ \hline 13 \end{array}$	$\begin{array}{r} 19 \\ - 9 \\ \hline 10 \end{array}$	$\begin{array}{r} 17 \\ - 7 \\ \hline 10 \end{array}$	$\begin{array}{r} 18 \\ - 1 \\ \hline 17 \end{array}$	$\begin{array}{r} 16 \\ - 3 \\ \hline 13 \end{array}$
	$\begin{array}{r} 15 \\ - 4 \\ \hline 11 \end{array}$	$\begin{array}{r} 19 \\ - 6 \\ \hline 13 \end{array}$	$\begin{array}{r} 19 \\ - 8 \\ \hline 11 \end{array}$	$\begin{array}{r} 16 \\ - 2 \\ \hline 14 \end{array}$	$\begin{array}{r} 18 \\ - 4 \\ \hline 14 \end{array}$	$\begin{array}{r} 19 \\ - 3 \\ \hline 16 \end{array}$	$\begin{array}{r} 18 \\ - 8 \\ \hline 10 \end{array}$	$\begin{array}{r} 19 \\ - 5 \\ \hline 14 \end{array}$	$\begin{array}{r} 12 \\ - 2 \\ \hline 10 \end{array}$

### Subtraction of Tens

### Exercise

#### Fill in the blanks :

Ans.  $3 \text{ ten} - 1 \text{ ten} = 2 \text{ tens} = 20$

$2 \text{ tens} - 2 \text{ tens} = 0 \text{ tens} = 0$

$5 \text{ tens} - 3 \text{ ten} = 2 \text{ tens} = 20$

$6 \text{ tens} - 4 \text{ tens} = 2 \text{ tens} = 20$

$20 - 10 = 10$	$30 - 10 = 20$	$50 - 30 = 20$	$60 - 40 = 20$
$80 - 10 = 70$	$50 - 20 = 30$	$40 - 20 = 20$	$70 - 50 = 20$
$90 - 70 = 20$	$60 - 30 = 30$	$80 - 30 = 50$	$70 - 20 = 50$
$80 - 50 = 30$	$40 - 10 = 30$	$60 - 60 = 0$	$80 - 20 = 60$

### Subtraction of 2-Digit Numbers

### Exercise

#### 1. Subtract :

Ans.	$\begin{array}{r} \text{T O} \\ 17 \\ - 4 \\ \hline 13 \end{array}$	$\begin{array}{r} \text{T O} \\ 28 \\ - 6 \\ \hline 22 \end{array}$	$\begin{array}{r} \text{T O} \\ 15 \\ - 13 \\ \hline 02 \end{array}$	$\begin{array}{r} \text{T O} \\ 38 \\ - 28 \\ \hline 10 \end{array}$	$\begin{array}{r} \text{T O} \\ 50 \\ - 40 \\ \hline 10 \end{array}$
	$\begin{array}{r} 55 \\ - 5 \\ \hline 50 \end{array}$	$\begin{array}{r} 65 \\ - 43 \\ \hline 22 \end{array}$	$\begin{array}{r} 79 \\ - 18 \\ \hline 61 \end{array}$	$\begin{array}{r} 75 \\ - 50 \\ \hline 25 \end{array}$	$\begin{array}{r} 88 \\ - 83 \\ \hline 05 \end{array}$
	$\begin{array}{r} 60 \\ - 30 \\ \hline 30 \end{array}$	$\begin{array}{r} 48 \\ - 24 \\ \hline 24 \end{array}$	$\begin{array}{r} 64 \\ - 32 \\ \hline 32 \end{array}$	$\begin{array}{r} 86 \\ - 74 \\ \hline 12 \end{array}$	$\begin{array}{r} 99 \\ - 87 \\ \hline 12 \end{array}$

2. Subtract the following :

Ans.  $29 - 6 = 23$      $67 - 5 = 62$      $49 - 15 = 34$      $62 - 12 = 50$   
 $24 - 12 = 12$      $42 - 12 = 30$      $68 - 34 = 34$      $67 - 55 = 12$   
 $75 - 25 = 50$      $90 - 50 = 40$      $74 - 60 = 14$      $89 - 41 = 48$

Word Problems

2. 
$$\begin{array}{r} 30 \\ - 10 \\ \hline 20 \end{array}$$

20 boats

3. 
$$\begin{array}{r} 64 \\ - 32 \\ \hline 32 \end{array}$$

32 pages

4. 
$$\begin{array}{r} 39 \\ - 35 \\ \hline 04 \end{array}$$

4 children

5. 
$$\begin{array}{r} 57 \\ - 22 \\ \hline 35 \end{array}$$

35 stickers

6. 
$$\begin{array}{r} 78 \\ - 43 \\ \hline 35 \end{array}$$

35 glasses

7. 
$$\begin{array}{r} 59 \\ - 28 \\ \hline 31 \end{array}$$

31 years



## 2 Numbers Up To 1000

101 to 200

Exercise

Write 1 to 100 :

Ans.

101	111	121	131	141	151	161	171	181	191
102	112	122	132	142	152	162	172	182	192
103	113	123	133	143	153	163	173	183	193
104	114	124	134	144	154	164	174	184	194
105	115	125	135	145	155	165	175	185	195
106	116	126	136	146	156	166	176	186	196
107	117	127	137	147	157	167	177	187	197
108	118	128	138	148	158	168	178	188	198
109	119	129	139	149	159	169	179	189	199
110	120	130	140	150	160	170	180	190	200

## 201 to 500

### Exercise

#### 1. Write 201 to 300 :

Ans.

201	211	221	231	241	251	261	271	281	291
202	212	222	232	242	252	262	272	282	292
203	213	223	233	243	253	263	273	283	293
204	214	224	234	244	254	264	274	284	294
205	215	225	235	245	255	265	275	285	295
206	216	226	236	246	256	266	276	286	296
207	217	227	237	247	257	267	277	287	297
208	218	228	238	248	258	268	278	288	298
209	219	229	239	249	259	269	279	289	299
210	220	230	240	250	260	270	280	290	300

#### 2. Write 301 to 400 :

Ans.

301	311	321	331	341	351	361	371	381	391
302	312	322	332	342	352	362	372	382	392
303	313	323	333	343	353	363	373	383	393
304	314	324	334	344	354	364	374	384	394
305	315	325	335	345	355	365	375	385	395
306	316	326	336	346	356	366	376	386	396
307	317	327	337	347	357	367	377	387	397
308	318	328	338	348	358	368	378	388	398
309	319	329	339	349	359	369	379	389	399
310	320	330	340	350	360	370	380	390	400

#### 3. Write 401 to 500 :

Ans.

401	411	421	431	441	451	461	471	481	491
402	412	422	432	442	452	462	472	482	492
403	413	423	433	443	453	463	473	483	493
404	414	424	434	444	454	464	474	484	494
405	415	425	435	445	455	465	475	485	495
406	416	426	436	446	456	466	476	486	496
407	417	427	437	447	457	467	477	487	497
408	418	428	438	448	458	468	478	488	498
409	419	429	439	449	459	469	479	489	499
410	420	430	440	450	460	470	480	490	500



**4. Fill in the blanks :**

Ans.

207	208	209	210	211	212	213	214	215	
	321	322	323	324	325	326	327	328	329
149	150	151	152	153	154	155	156	157	
	475	476	477	478	479	480	481	482	483

501 to 700

Exercise

**1. Write 601 to 700 :**

Ans.

601	602	603	604	605	606	607	608	609	610
611	612	613	614	615	616	617	618	619	620
621	622	623	624	625	626	627	628	629	630
631	632	633	634	635	636	637	638	639	640
641	642	643	644	645	646	647	648	649	650
651	652	653	654	655	656	657	658	659	660
661	662	663	664	665	666	667	668	669	670
671	672	673	674	675	676	677	678	679	680
681	682	683	684	685	686	687	688	689	690
691	692	693	694	695	696	697	698	699	700

**2. Write the number names :**

Ans.

621	Six hundred twenty-one	559	Five hundred fifty-nine
643	Six hundred forty-three	509	Five hundred nine
600	Six hundred	662	Six hundred sixty-two

701 to 1000

Exercise

**1. Write the numeral for the number names :**

Ans.

Seven hundred and thirty-one	<b>731</b>
Eight hundred and twenty-eight	<b>828</b>
Nine hundred and eighty-six	<b>986</b>

**2. Fill in the blanks :**

Ans.

934	935	936	937	938	939	940	941	942
854	853	852	851	850	849	848	847	846

## Place Value

### Exercise

**1. Write the place value of 5 in each of the following numerals :**

Ans. Numeral	Place value of 5	In words
359	500	five hundred
523	50	fifty
885	5	five
765	5	five

**2. Write the face value of each underlined digit :**

Ans. 187	<u>8</u>	275	<u>5</u>	648	<u>6</u>
459	<u>9</u>	733	<u>7</u>	957	<u>7</u>

**3. Write the place value of each underlined digit :**

Ans. 135	<u>5</u>	252	<u>200</u>	562	<u>60</u>
424	<u>400</u>	380	<u>80</u>	723	<u>700</u>
872	<u>70</u>	638	<u>8</u>	147	<u>40</u>
561	<u>500</u>	915	<u>5</u>	890	<u>90</u>
283	<u>200</u>	854	<u>4</u>	516	<u>10</u>
798	<u>700</u>	151	<u>100</u>	769	<u>9</u>

## Comparison of 3-Digit Numbers

### Exercise

**1. Write the greater number in each pair of numbers :**

Ans. Pair of numbers	Greater	Pair of numbers	Greater
356    351	<b>356</b>	596    590	<b>596</b>
163    168	<b>168</b>	642    647	<b>647</b>
712    716	<b>716</b>	829    823	<b>829</b>
143    158	<b>158</b>	536    562	<b>562</b>

**2. Write the smaller number in each pair of numbers :**

Ans. Pair of numbers	Greater	Pair of numbers	Greater
233    238	<b>233</b>	565    566	<b>565</b>
182    181	<b>181</b>	753    750	<b>750</b>
628    629	<b>628</b>	969    965	<b>965</b>
156    165	<b>156</b>	641    632	<b>632</b>

**3. Fill in the blanks with symbol > or < :**

Ans. 238	>	236	395	>	391
423	<	427	312	>	310
476	>	472	536	>	535

4. Encircle the smallest number in each of the following :

Ans. 658      385      (358)      749      794      779  
903      631      412      (219)      229      239  
495      945      549      594      954      (459)

5. Rearrange the following numerals in the ascending order :

Ans.	152	168	173	112	124	180	165	109
	<b>109</b>	<b>112</b>	<b>124</b>	<b>152</b>	<b>165</b>	<b>168</b>	<b>173</b>	<b>180</b>
	212	220	232	218	268	271	246	250
	<b>212</b>	<b>218</b>	<b>220</b>	<b>232</b>	<b>246</b>	<b>250</b>	<b>268</b>	<b>271</b>
	302	313	374	365	333	347	352	390
	<b>302</b>	<b>313</b>	<b>333</b>	<b>347</b>	<b>352</b>	<b>365</b>	<b>374</b>	<b>390</b>
	402	482	462	491	451	442	422	431
	<b>402</b>	<b>422</b>	<b>431</b>	<b>442</b>	<b>451</b>	<b>462</b>	<b>482</b>	<b>491</b>

### Multiple Choice Questions

Tick (3) the correct answer :

Ans. 1. d      2. c      3. c      4. a      5. b



## 3 Addition

### Challenge !

Find the addend :

Ans. a.  $8 + 6 = 14$       b.  $5 + 3 = 8$       c.  $5 + 6 = 11$   
d.  $1 + 9 = 10$       e.  $6 + 4 = 10$

### Properties of Addition

#### Exercise

1. Fill in the boxes :

$$5 + 3 = 3 + 5$$

$$7 + 13 = 13 + 7$$

$$8 + 4 = 4 + 8$$

$$76 + 4 = 4 + 76$$

$$35 + 5 = 5 + 35$$

$$17 + 5 = 5 + 17$$

$$11 + 4 = 4 + 11$$

$$8 + 0 = 0 + 8$$

$$7 + 0 = 7 + 0$$

$$11 + 7 = 7 + 11$$

$$15 + 1 = 1 + 15$$

$$17 + 1 = 1 + 17$$

$$26 + 1 = 1 + 26$$

$$45 + 2 = 2 + 45$$

2. Fill in the circles :

$$\begin{aligned} (6 + 3) + 4 &= 6 + (3 + 4) \\ (3 + 5) + 2 &= 3 + (5 + 2) \\ (2 + 4) + 12 &= 2 + (4 + 12) \\ (11 + 4) + 6 &= 11 + (4 + 6) \\ 3 + (8 + 5) &= (3 + 8) + 5 \\ 4 + (15 + 19) &= (4 + 15) + 19 \\ 27 + (14 + 25) &= (27 + 14) + 25 \end{aligned}$$

Exercise

Add the following :

Ans.

$\begin{array}{r} 4 \\ 3 \\ + 1 \\ \hline 8 \end{array}$	$\begin{array}{r} 6 \\ 2 \\ + 1 \\ \hline 9 \end{array}$	$\begin{array}{r} 1\ 1 \\ 2\ 2 \\ + 3\ 3 \\ \hline 6\ 6 \end{array}$	$\begin{array}{r} 1\ 2 \\ 1\ 4 \\ + 2\ 2 \\ \hline 4\ 8 \end{array}$	$\begin{array}{r} 3 \\ 3 \\ + 2 \\ \hline 8 \end{array}$
$\begin{array}{r} 3 \\ 2 \\ + 4 \\ \hline 9 \end{array}$	$\begin{array}{r} 2\ 2 \\ 4\ 1 \\ + 1\ 1 \\ \hline 7\ 4 \end{array}$	$\begin{array}{r} 4\ 4 \\ 1\ 2 \\ + 1\ 3 \\ \hline 6\ 9 \end{array}$	$\begin{array}{r} 4\ 0 \\ 2\ 6 \\ + 1\ 3 \\ \hline 7\ 9 \end{array}$	$\begin{array}{r} 3\ 3 \\ 1\ 2 \\ + 2\ 4 \\ \hline 6\ 9 \end{array}$

Addition of 3-Digit Numbers

Exercise

Add the following :

Ans. a.  $288 \longrightarrow$   $\begin{array}{l} 2 \text{ hundreds} \\ 8 \text{ tens} \\ 8 \text{ ones} \end{array}$   
 $+ 111 \longrightarrow$   $\begin{array}{l} + 1 \text{ hundreds} \\ + 1 \text{ tens} \\ + 1 \text{ ones} \end{array}$   
 $=$   $\begin{array}{l} 3 \text{ hundreds} \\ 9 \text{ tens} \\ 9 \text{ ones} \end{array}$

So,  $288 + 111 = 399$

b.  $174 \longrightarrow$   $\begin{array}{l} 1 \text{ hundreds} \\ 7 \text{ tens} \\ 4 \text{ ones} \end{array}$   
 $+ 425 \longrightarrow$   $\begin{array}{l} + 4 \text{ hundreds} \\ + 2 \text{ tens} \\ + 5 \text{ ones} \end{array}$   
 $=$   $\begin{array}{l} 5 \text{ hundreds} \\ 9 \text{ tens} \\ 9 \text{ ones} \end{array}$

So,  $174 + 425 = 599$

c.  $326 \longrightarrow$   $\begin{array}{l} 3 \text{ hundreds} \\ 2 \text{ tens} \\ 6 \text{ ones} \end{array}$   
 $+ 341 \longrightarrow$   $\begin{array}{l} + 3 \text{ hundreds} \\ + 4 \text{ tens} \\ + 1 \text{ ones} \end{array}$   
 $=$   $\begin{array}{l} 6 \text{ hundreds} \\ 6 \text{ tens} \\ 7 \text{ ones} \end{array}$

So,  $326 + 341 = 667$

## Addition : By Short Method

Exercise

**Add :**

**Ans.**

$$\begin{array}{r} \text{H T O} \\ 142 \\ + 215 \\ \hline 357 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 232 \\ + 412 \\ \hline 644 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 124 \\ + 323 \\ \hline 447 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 311 \\ + 122 \\ \hline 433 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 436 \\ + 163 \\ \hline 599 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 123 \\ + 122 \\ \hline 245 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 316 \\ + 332 \\ \hline 648 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 203 \\ + 112 \\ \hline 315 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 322 \\ + 234 \\ \hline 556 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 232 \\ + 303 \\ \hline 535 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 124 \\ + 231 \\ \hline 355 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 141 \\ + 126 \\ \hline 267 \end{array}$$

### Addition of Three 3-Digit Numbers

Exercise

**Add :**

**Ans.**

$$\begin{array}{r} \text{H T O} \\ 122 \\ + 234 \\ + 133 \\ \hline 489 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 200 \\ + 341 \\ + 107 \\ \hline 648 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 401 \\ + 205 \\ + 181 \\ \hline 787 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 241 \\ + 503 \\ + 114 \\ \hline 858 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 202 \\ + 432 \\ + 305 \\ \hline 939 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 215 \\ + 210 \\ + 434 \\ \hline 859 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 552 \\ + 115 \\ + 211 \\ \hline 878 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 111 \\ + 305 \\ + 342 \\ \hline 758 \end{array}$$

### Word Problems

**Ans. 2.**

$$\begin{array}{r} 392 \text{ boys} \\ + 304 \text{ girls} \\ \hline 696 \text{ pupils} \end{array}$$

**3.**

$$\begin{array}{r} 442 \text{ sacks} \\ + 456 \text{ sacks} \\ \hline 898 \text{ sacks} \end{array}$$

**4.**

$$\begin{array}{r} \overset{1}{1}42 \text{ flower} \\ 132 \text{ flower} \\ + 233 \text{ flower} \\ \hline 507 \text{ flower} \end{array}$$

**5.**

$$\begin{array}{r} 368 \text{ clothes} \\ 211 \text{ clothes} \\ + 300 \text{ clothes} \\ \hline 879 \text{ clothes} \end{array}$$

**6.**

$$\begin{array}{r} 423 \text{ men} \\ 406 \text{ women} \\ + 110 \text{ children} \\ \hline 939 \text{ population} \end{array}$$

**7.**

$$\begin{array}{r} 142 \text{ bulbs} \\ + 336 \text{ bulbs} \\ \hline 478 \text{ bulbs} \end{array}$$

## Regrouping of Numbers (Ones To Tens)

### Exercise

#### 1. Regroup the following :

- Ans.** a. 3 tens 16 ones is the same as  $\frac{3}{4}$  fi **4** tens **6** ones.  
 4 tens 15 ones is the same as  $\frac{3}{4}$  fi **5** tens **5** ones.  
 2 tens 13 ones is the same as  $\frac{3}{4}$  fi **3** tens **3** ones.

#### 2. Fill in the blanks :

- a. 14 ones = **1** ten + **4** ones  
 b. 15 ones = **1** ten + **5** ones  
 c. 18 ones = **1** ten + **8** ones  
 d. 25 ones = **2** tens + **5** ones  
 e. 36 ones = **3** tens + **6** ones  
 f. 2 tens + 14 ones = **3** tens + **4** ones  
 g. 8 tens + 16 ones = **9** tens + **6** ones  
 h. 3 tens + 15 ones = **4** tens + **5** ones  
 i. 8 tens + 12 ones = **9** tens + **2** ones  
 j. 1 ten + 13 ones = **2** ten + **3** ones  
 k. 2 tens + 18 ones = **3** tens + **8** ones  
 l. 3 tens + 14 ones = **4** tens + **4** ones  
 m. 6 tens + 12 ones = **7** tens + **2** ones  
 n. 7 tens + 16 ones = **8** tens + **6** ones

## Addition with Regrouping

### Exercise

#### Add and regroup :

**Ans.**

	T	O	
	1	3	
	2	3	
+	4	8	
	7	11	

	T	O	
	1	5	
	5	5	
+	3	9	
	9	14	

	T	O	
	1	4	
	6	4	
+	2	8	
	9	12	

	T	O	
	1	1	
	2	1	
+	3	9	
	6	10	

	T	O	
	1	8	
	4	8	
+	2	4	
	7	12	

	T	O	
	1	8	
	2	8	
+	6	9	
	9	17	

	T	O	
	1	2	
	5	2	
+	3	9	
	9	11	

	T	O	
	1	5	
	4	5	
+	3	6	
	8	11	

## Addition of Three 2-Digit Numbers

**Add and regroup :**

**Ans.**

$$\begin{array}{r} \text{T} \quad \text{O} \\ \boxed{1} \leftarrow \\ 1 \quad 3 \\ + 1 \quad 5 \\ + 2 \quad 6 \\ \hline 5 \quad \boxed{1} \quad 4 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ \boxed{1} \leftarrow \\ 2 \quad 2 \\ + 1 \quad 8 \\ + 4 \quad 3 \\ \hline 8 \quad \boxed{1} \quad 3 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ \boxed{1} \leftarrow \\ 5 \quad 4 \\ + 2 \quad 2 \\ + 1 \quad 6 \\ \hline 9 \quad \boxed{1} \quad 2 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ \boxed{1} \leftarrow \\ 6 \quad 3 \\ + 1 \quad 5 \\ + 1 \quad 4 \\ \hline 9 \quad \boxed{1} \quad 2 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ \boxed{1} \leftarrow \\ 5 \quad 6 \\ + 1 \quad 2 \\ + 1 \quad 8 \\ \hline 8 \quad \boxed{1} \quad 6 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ \boxed{1} \leftarrow \\ 2 \quad 3 \\ + 1 \quad 7 \\ + 1 \quad 2 \\ \hline 5 \quad \boxed{1} \quad 2 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ \boxed{1} \leftarrow \\ 1 \quad 5 \\ + 3 \quad 5 \\ + 2 \quad 4 \\ \hline 7 \quad \boxed{1} \quad 4 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ \boxed{2} \leftarrow \\ 1 \quad 5 \\ + 1 \quad 8 \\ + 2 \quad 7 \\ \hline 6 \quad \boxed{2} \quad 0 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ \boxed{1} \leftarrow \\ 2 \quad 9 \\ + 1 \quad 1 \\ + 1 \quad 3 \\ \hline 5 \quad \boxed{1} \quad 3 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ \boxed{1} \leftarrow \\ 3 \quad 8 \\ + 1 \quad 4 \\ + 2 \quad 2 \\ \hline 7 \quad \boxed{1} \quad 4 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ \boxed{1} \leftarrow \\ 4 \quad 9 \\ + 3 \quad 2 \\ + 1 \quad 1 \\ \hline 9 \quad \boxed{1} \quad 2 \end{array}$$

$$\begin{array}{r} \text{T} \quad \text{O} \\ \boxed{1} \leftarrow \\ 1 \quad 9 \\ + 1 \quad 6 \\ + 2 \quad 3 \\ \hline 5 \quad \boxed{1} \quad 8 \end{array}$$



## 4 Subtraction

**Subtract :**

**Ans.**

$$6 - 2 = 4$$

$$17 - 5 = 12$$

$$7 - 5 = 2$$

$$15 - 4 = 11$$

$$19 - 2 = 17$$

$$18 - 6 = 12$$

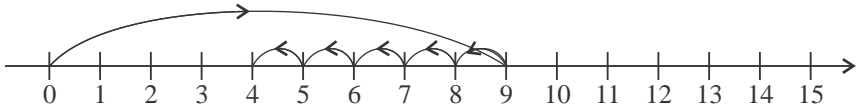
$$18 - 7 = 11$$

$$17 - 2 = 15$$

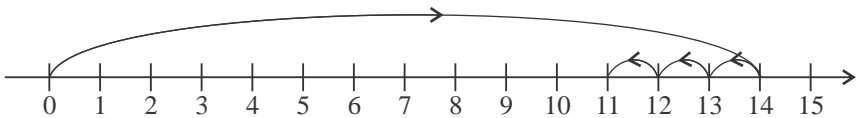
$$15 - 5 = 10$$

**Subtract with the help of number line :**

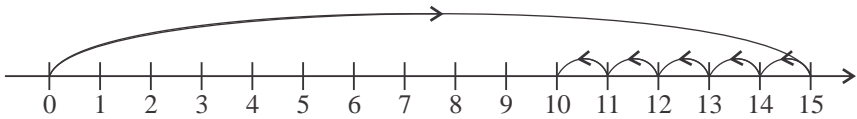
**Ans.**



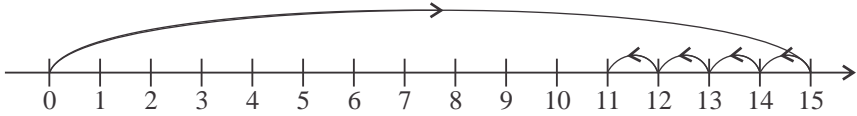
$$9 - 5 = 4$$



$$14 - 3 = 11$$



$$15 - 5 = 10$$



$$15 - 4 = 11$$

### Properties of Subtraction

Fill in the circles :

Ans.

$$\begin{array}{l} 7 - 0 = 7 \\ 5 - 0 = 5 \\ 8 - 0 = 8 \\ 4 - 0 = 4 \\ 8 - 8 = 0 \end{array}$$

$$\begin{array}{l} 1 - 0 = 1 \\ 19 - 0 = 19 \\ 2 - 0 = 2 \\ 12 - 0 = 12 \\ 16 - 16 = 0 \end{array}$$

$$\begin{array}{l} 4 - 4 = 0 \\ 17 - 0 = 17 \\ 11 - 0 = 11 \\ 5 - 5 = 0 \\ 3 - 0 = 3 \end{array}$$

### Subtraction of 2-Digit Numbers

Arrange and subtract :

Ans.

$$\begin{array}{r} \text{T O} \\ 9 \ 8 \\ -4 \ 2 \\ \hline 5 \ 6 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 3 \ 6 \\ -1 \ 2 \\ \hline 2 \ 4 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 5 \ 8 \\ -3 \ 6 \\ \hline 2 \ 2 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 5 \ 4 \\ -4 \ 3 \\ \hline 1 \ 1 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 2 \ 8 \\ -1 \ 6 \\ \hline 1 \ 2 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 8 \ 6 \\ -3 \ 2 \\ \hline 5 \ 4 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 5 \ 0 \\ -2 \ 0 \\ \hline 3 \ 0 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 8 \ 5 \\ -4 \ 5 \\ \hline 4 \ 0 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 6 \ 0 \\ -3 \ 0 \\ \hline 3 \ 0 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 4 \ 9 \\ -4 \ 2 \\ \hline 0 \ 7 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 6 \ 6 \\ -3 \ 3 \\ \hline 3 \ 3 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 4 \ 3 \\ -4 \ 0 \\ \hline 0 \ 3 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 2 \ 7 \\ -1 \ 6 \\ \hline 1 \ 1 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 6 \ 6 \\ -2 \ 4 \\ \hline 4 \ 2 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 9 \ 9 \\ -8 \ 3 \\ \hline 1 \ 6 \end{array}$$

### Subtraction of 3-Digit Numbers

Arrange and subtract :

Ans.

$$\begin{array}{r} \text{H T O} \\ 5 \ 2 \ 4 \\ -4 \ 2 \ 3 \\ \hline 1 \ 0 \ 1 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 3 \ 6 \ 8 \\ -2 \ 4 \ 3 \\ \hline 1 \ 2 \ 5 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 8 \ 9 \ 3 \\ -6 \ 2 \ 1 \\ \hline 2 \ 7 \ 2 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 5 \ 8 \ 3 \\ -1 \ 2 \ 3 \\ \hline 4 \ 6 \ 0 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 7 \ 6 \ 9 \\ -5 \ 4 \ 2 \\ \hline 2 \ 2 \ 7 \end{array}$$



H T O 2 9 6 - 2 2 3 0 7 3	H T O 3 6 3 - 1 4 2 2 2 1	H T O 4 6 3 - 4 4 2 0 2 1	H T O 3 6 6 - 1 6 2 2 0 4	H T O 4 7 6 - 3 2 4 1 5 2
H T O 4 6 4 - 3 1 3 1 5 1	H T O 4 8 4 - 3 4 4 1 4 0	H T O 2 6 6 - 1 2 2 1 4 4	H T O 4 0 4 - 3 0 2 1 0 2	H T O 2 8 4 - 1 0 4 1 8 0

### Subtraction in Expanded Form

Fill in the blanks :

Ans.  $467$  fi **4** hundreds + **6** tens + **7** ones fi **4** + **6** + **7**  
 $-252$  fi **2** hundreds + **5** tens + **2** ones fi **2** + **5** + **2**  
**2** hundreds + **1** tens + **5** ones fi **2** + **1** + **5**  
= **215** = **215**

$548$  fi **5** hundreds + **4** tens + **8** ones fi **5** + **4** + **8**  
 $-317$  fi **3** hundreds + **1** tens + **7** ones fi **3** + **1** + **7**  
**2** hundreds + **3** tens + **1** ones fi **2** + **3** + **1**  
= **231** = **221**

$792$  fi **7** hundreds + **9** tens + **2** ones fi **7** + **9** + **2**  
 $-242$  fi **2** hundreds + **4** tens + **2** ones fi **2** + **4** + **2**  
**5** hundreds + **5** tens + **0** ones fi **5** + **5** + **0**  
= **850** = **550**

### Subtraction with Regrouping

Convert one ten into ones. Write the remaining tens and ones in the blanks :

Ans.   
4 tens 3 ones  $\longrightarrow$  **3** tens **13** ones

### Subtraction of 2-Digit Numbers

Subtract :

T O 2 12 <del>3</del> <del>2</del> - 1 6 1 6	T O 8 16 <del>9</del> <del>6</del> - 1 8 7 8	T O 7 17 <del>8</del> <del>7</del> - 1 9 6 8	T O 3 16 <del>4</del> <del>6</del> - 1 8 2 8	T O 4 16 <del>5</del> <del>6</del> - 2 9 2 7
--	--	--	--	--

T	O
3	18
<del>4</del>	<del>8</del>
-2	9
1	9

T	O
6	16
<del>7</del>	<del>6</del>
-3	8
3	8

T	O
3	14
<del>4</del>	<del>4</del>
-2	7
1	7

T	O
5	12
<del>6</del>	<del>2</del>
-2	8
3	4

T	O
5	12
<del>6</del>	<del>2</del>
-4	5
1	7

Word Problems

Ans.

7	16
<del>8</del>	<del>8</del>
-6	9
1	7

3	10
<del>4</del>	<del>8</del>
-2	8
1	2

3	17	12
<del>4</del>	<del>8</del>	<del>2</del>
-2	9	8
1	8	4

8	10
<del>9</del>	<del>8</del>
-2	3
6	7

8	16
<del>9</del>	<del>6</del>
-6	9
2	7

6	10
<del>7</del>	<del>8</del>
-5	2
1	8

4	15
<del>5</del>	<del>8</del>
-3	7
1	8

Word Problems

Ans.

④	⑩
5	6
-3	7
1	9

 $\xrightarrow{+}$ 

①	
1	9
+3	7
5	6

⑤	⑭
6	4
-4	7
1	7

 $\xrightarrow{+}$ 

①	
1	7
+4	7
6	4

⑦	⑩
8	6
-3	9
4	7

 $\xrightarrow{+}$ 

①	
4	7
+3	9
8	6

⑤	⑬
6	3
-3	4
2	9

 $\xrightarrow{+}$ 

①	
2	9
+3	4
6	3

Towards The Lab

Do yourself



## 5 Multiplication

Exercise

**Fill in the blanks :**

**Ans.** Groups of 4 strawberries.

There are 3 groups of 4 strawberries.

$$3 \times 4 = 4 + 4 + 4 = 12$$

Groups of 5 cherries.

There are 4 groups of 5 cherries.

$$4 \times 5 = 5 + 5 + 5 + 5 = 20$$

Groups of 4 mangoes.

There are 4 groups of 4 mangoes.

$$4 \times 4 = 4 + 4 + 4 + 4 = 16$$

Groups of 6 grapes.

There are 2 groups of 6 grapes.

$$6 \times 2 = 6 + 6 = 12$$

Groups of 3 pears.  
 There are 3 groups of 3 pears.  
 $3 \times 3 = 3 + 3 + 3 = 9$

Groups of 5 eggs.  
 There are 3 groups of 5 eggs.  
 $3 \times 5 = 5 + 5 + 5 = 15$

### Terms of Multiplication

#### Exercise

**Write what term is the coloured digit?**

<b>Ans.</b> $7 \times 4 = 28$	Multiplicand	$2 \times 4 = 8$	Multiplier
$3 \times 3 = 9$	Multiplicand	$7 \times 3 = 21$	Multiplier
$5 \times 8 = 40$	Product	$7 \times 5 = 35$	Product
$8 \times 6 = 48$	Multiplicand		

### Properties of Multiplication

#### Exercise

**Fill in the boxes :**

**Ans.**

### Multiplication of Numbers

#### Exercise

**Multiply :**

<b>Ans.</b>	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>T</td><td>O</td></tr> <tr><td>5</td><td></td></tr> <tr><td>× 6</td><td></td></tr> <tr><td>30</td><td></td></tr> </table>	T	O	5		× 6		30		<table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>T</td><td>O</td></tr> <tr><td>7</td><td></td></tr> <tr><td>× 4</td><td></td></tr> <tr><td>28</td><td></td></tr> </table>	T	O	7		× 4		28		<table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>T</td><td>O</td></tr> <tr><td>9</td><td></td></tr> <tr><td>× 5</td><td></td></tr> <tr><td>45</td><td></td></tr> </table>	T	O	9		× 5		45		<table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>T</td><td>O</td></tr> <tr><td>4</td><td></td></tr> <tr><td>× 3</td><td></td></tr> <tr><td>12</td><td></td></tr> </table>	T	O	4		× 3		12		<table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>T</td><td>O</td></tr> <tr><td>2</td><td></td></tr> <tr><td>× 5</td><td></td></tr> <tr><td>10</td><td></td></tr> </table>	T	O	2		× 5		10		<table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>T</td><td>O</td></tr> <tr><td>8</td><td></td></tr> <tr><td>× 3</td><td></td></tr> <tr><td>24</td><td></td></tr> </table>	T	O	8		× 3		24	
T	O																																																					
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$\begin{array}{r} \text{T O} \\ 3 \\ \times 4 \\ \hline 12 \end{array}$	$\begin{array}{r} \text{T O} \\ 2 \\ \times 7 \\ \hline 14 \end{array}$	$\begin{array}{r} \text{T O} \\ 5 \\ \times 4 \\ \hline 20 \end{array}$	$\begin{array}{r} \text{T O} \\ 9 \\ \times 9 \\ \hline 81 \end{array}$	$\begin{array}{r} \text{T O} \\ 3 \\ \times 2 \\ \hline 6 \end{array}$	$\begin{array}{r} \text{T O} \\ 2 \\ \times 6 \\ \hline 12 \end{array}$
$\begin{array}{r} \text{T O} \\ 7 \\ \times 6 \\ \hline 42 \end{array}$	$\begin{array}{r} \text{T O} \\ 6 \\ \times 5 \\ \hline 30 \end{array}$	$\begin{array}{r} \text{T O} \\ 2 \\ \times 4 \\ \hline 8 \end{array}$	$\begin{array}{r} \text{T O} \\ 8 \\ \times 5 \\ \hline 40 \end{array}$	$\begin{array}{r} \text{T O} \\ 4 \\ \times 6 \\ \hline 24 \end{array}$	$\begin{array}{r} \text{T O} \\ 6 \\ \times 2 \\ \hline 12 \end{array}$
$\begin{array}{r} \text{T O} \\ 52 \\ \times 3 \\ \hline 156 \end{array}$	$\begin{array}{r} \text{T O} \\ 24 \\ \times 2 \\ \hline 48 \end{array}$	$\begin{array}{r} \text{T O} \\ 42 \\ \times 4 \\ \hline 168 \end{array}$	$\begin{array}{r} \text{T O} \\ 44 \\ \times 2 \\ \hline 88 \end{array}$	$\begin{array}{r} \text{T O} \\ 32 \\ \times 4 \\ \hline 128 \end{array}$	$\begin{array}{r} \text{T O} \\ 12 \\ \times 3 \\ \hline 36 \end{array}$
$\begin{array}{r} \text{T O} \\ 15 \\ \times 1 \\ \hline 15 \end{array}$	$\begin{array}{r} \text{T O} \\ 63 \\ \times 1 \\ \hline 63 \end{array}$	$\begin{array}{r} \text{T O} \\ 23 \\ \times 2 \\ \hline 46 \end{array}$	$\begin{array}{r} \text{T O} \\ 13 \\ \times 3 \\ \hline 39 \end{array}$	$\begin{array}{r} \text{T O} \\ 32 \\ \times 3 \\ \hline 96 \end{array}$	$\begin{array}{r} \text{T O} \\ 21 \\ \times 9 \\ \hline 189 \end{array}$

### Multiplication (3-Digit Numbers by Single-Digit Numbers)

#### Exercise

#### Multiply :

Ans.

$\begin{array}{r} \text{H T O} \\ 321 \\ \times 2 \\ \hline 642 \end{array}$	$\begin{array}{r} \text{H T O} \\ 103 \\ \times 2 \\ \hline 206 \end{array}$	$\begin{array}{r} \text{H T O} \\ 411 \\ \times 1 \\ \hline 411 \end{array}$	$\begin{array}{r} \text{H T O} \\ 232 \\ \times 3 \\ \hline 696 \end{array}$	$\begin{array}{r} \text{H T O} \\ 112 \\ \times 4 \\ \hline 448 \end{array}$
$\begin{array}{r} \text{H T O} \\ 223 \\ \times 3 \\ \hline 669 \end{array}$	$\begin{array}{r} \text{H T O} \\ 323 \\ \times 2 \\ \hline 646 \end{array}$	$\begin{array}{r} \text{H T O} \\ 404 \\ \times 2 \\ \hline 808 \end{array}$	$\begin{array}{r} \text{H T O} \\ 101 \\ \times 9 \\ \hline 909 \end{array}$	$\begin{array}{r} \text{H T O} \\ 333 \\ \times 3 \\ \hline 999 \end{array}$
$\begin{array}{r} \text{H T O} \\ 204 \\ \times 2 \\ \hline 408 \end{array}$	$\begin{array}{r} \text{H T O} \\ 111 \\ \times 6 \\ \hline 666 \end{array}$	$\begin{array}{r} \text{H T O} \\ 321 \\ \times 3 \\ \hline 963 \end{array}$	$\begin{array}{r} \text{H T O} \\ 100 \\ \times 8 \\ \hline 800 \end{array}$	$\begin{array}{r} \text{H T O} \\ 443 \\ \times 2 \\ \hline 886 \end{array}$

### Word Problems (Without Carrying)

2.  $4 \times 7 = 28$

3.  $5 \times 3 = 15$

4.  $9 \times 5 = 45$

5.  $6 \times 6 = 36$

6.  $8 \times 5 = 40$

7.  $3 \times 6 = 18$

Towards The Lab

Do yourself



## Addition and Subtraction of Bigger Numbers

### Regrouping (Tens to Hundreds)

#### Exercise

#### Regroup these :

Ans. 18 tens = 1 hundred 8 tens

15 tens = 1 hundred 5 tens

12 tens = 1 hundred 2 tens

17 tens = 1 hundred 7 tens

14 tens = 1 hundred 4 tens

19 tens = 1 hundred 9 tens

11 tens = 1 hundred 1 tens

16 tens = 1 hundred 6 tens

### Addition of 3-Digit Numbers

#### Exercise

#### 1. Add 278 and 554 and fill in the boxes :

$$\begin{array}{r}
 278 = 2 \text{ hundreds} \quad 7 \text{ tens} \quad 8 \text{ ones} \\
 + 554 = 5 \text{ hundreds} \quad 5 \text{ tens} \quad 4 \text{ ones} \\
 = 7 \text{ hundreds} \quad 12 \text{ tens} \quad 12 \text{ ones} \\
 = 8 \text{ hundreds} \quad 3 \text{ tens} \quad 2 \text{ ones} \\
 \backslash \quad 278 + 554 = 832
 \end{array}$$

#### 2. Add 673 and 279 and fill in the boxes :

$$\begin{array}{r}
 673 = 6 \text{ hundreds} \quad 7 \text{ tens} \quad 3 \text{ ones} \\
 + 279 = 2 \text{ hundreds} \quad 7 \text{ tens} \quad 9 \text{ ones} \\
 = 8 \text{ hundreds} \quad 14 \text{ tens} \quad 12 \text{ ones} \\
 = 9 \text{ hundreds} \quad 5 \text{ tens} \quad 2 \text{ ones} \\
 \backslash \quad 673 + 279 = 952
 \end{array}$$

#### 3. Add 439 and 184 and fill in the boxes :

$$\begin{array}{r}
 439 = 4 \text{ hundreds} \quad 3 \text{ tens} \quad 9 \text{ ones} \\
 + 184 = 1 \text{ hundreds} \quad 8 \text{ tens} \quad 4 \text{ ones} \\
 = 5 \text{ hundreds} \quad 11 \text{ tens} \quad 13 \text{ ones} \\
 = 6 \text{ hundreds} \quad 2 \text{ tens} \quad 3 \text{ ones} \\
 \backslash \quad 439 + 184 = 623
 \end{array}$$

### Addition of 3-Digit Numbers

#### Exercise

#### Add together and fill in the circles :

Ans.

	H	T	O
	1	1	7
+	2	4	4
	8	3	1

	H	T	O
	1	1	7
+	2	9	8
	6	3	5

	H	T	O
	1	1	4
+	2	8	9
	9	4	3

	H	T	O
	1	1	2
+	4	3	2
	6	1	1

H	T	O
1	9	4
+ 6	+ 3	+ 8
8	13	12

H	T	O
6	2	7
+ 2	+ 9	+ 4
9	12	11

H	T	O
5	3	7
+ 4	+ 8	+ 9
10	12	16

H	T	O
7	4	6
+ 1	+ 8	+ 5
9	13	11

### Word Problems

1. 
$$\begin{array}{r} \textcircled{1} \\ 162 \\ 118 \\ + 101 \\ \hline 381 \end{array}$$
 persons

There are 381 persons in all.

2. 
$$\begin{array}{r} \textcircled{1} \textcircled{1} \\ 125 \\ 112 \\ + 64 \\ \hline 301 \end{array}$$
 plants

There are 301 plants in all.

3. 
$$\begin{array}{r} \textcircled{1} \\ 257 \\ + 372 \\ \hline 629 \end{array}$$
 people

629 people saw the circus that day.

4. 
$$\begin{array}{r} \textcircled{1} \textcircled{1} \\ 218 \\ + 192 \\ \hline 410 \end{array}$$
 km

The man travel 410 km.

5. 
$$\begin{array}{r} \textcircled{1} \\ 153 \\ + 129 \\ \hline 282 \end{array}$$
 pages

The book contains 282 pages.

6. 
$$\begin{array}{r} 375 \\ + 389 \\ \hline 764 \end{array}$$
 marks

He got 764 marks in both the tests.

7. 
$$\begin{array}{r} \textcircled{1} \textcircled{1} \\ 478 \\ + 345 \\ \hline 823 \end{array}$$
 sarees

There are 823 sarees in all in the showroom.

### Subtracting Bigger Numbers

#### Exercise

#### Fill in the blanks :

Ans. 
$$\begin{array}{rclcl} 4 \text{ tens} & 6 \text{ ones} & = & 3 \text{ tens} & \mathbf{16} \text{ ones} \\ 3 \text{ tens} & 0 \text{ ones} & = & 2 \text{ tens} & \mathbf{10} \text{ ones} \\ 4 \text{ hundreds} & 4 \text{ tens} & = & \mathbf{3} \text{ hundreds} & 14 \text{ tens} \\ 6 \text{ hundreds} & 2 \text{ tens} & 3 \text{ ones} & = & \mathbf{5} \text{ hundreds} & \mathbf{12} \text{ tens} & 3 \text{ ones} \end{array}$$

### Subtraction (With Decomposing)

#### Exercise

#### Subtract and fill in the boxes :

Ans.  $416 - 245$

=  $\mathbf{4}$  hundreds 1 tens 6 ones  $-$  2 hundreds 4 tens 5 ones

=  $\mathbf{3}$  hundreds 11 tens 6 ones  $-$  2 hundreds 4 tens 5 ones

=  $\mathbf{1}$  hundreds  $\mathbf{7}$  tens  $\mathbf{1}$  ones

=  $\mathbf{171}$

$$526 - 347$$

$$= 5 \text{ hundreds } 2 \text{ tens } 6 \text{ ones} - 3 \text{ hundreds } 4 \text{ tens } 7 \text{ ones}$$

$$= 5 \text{ hundreds } 1 \text{ ten } 16 \text{ ones} - 3 \text{ hundreds } 4 \text{ tens } 7 \text{ ones}$$

$$= 4 \text{ hundreds } 11 \text{ tens } 16 \text{ ones} - 3 \text{ hundreds } 4 \text{ tens } 7 \text{ ones}$$

$$= 1 \text{ hundreds } 7 \text{ tens } 9 \text{ ones}$$

$$= 179$$

### Subtraction (Borrowing from Hundreds to Tens)

#### Exercise

Find the difference :

Ans.

H	T	O
8	13	15
<del>9</del>	<del>4</del>	<del>5</del>
-3	8	9
5	5	6

H	T	O
8	12	14
<del>9</del>	<del>3</del>	<del>4</del>
-5	6	7
3	6	7

H	T	O
6	4	11
<del>7</del>	<del>5</del>	<del>1</del>
-4	3	9
3	1	2

H	T	O
0	13	15
<del>5</del>	<del>8</del>	<del>3</del>
-2	4	6
3	3	7

H	T	O
4	15	12
<del>5</del>	<del>6</del>	<del>2</del>
-2	8	7
2	7	5

H	T	O
5	9	15
<del>6</del>	<del>0</del>	<del>5</del>
-4	1	9
1	8	6

H	T	O
8	12	14
<del>9</del>	<del>3</del>	<del>4</del>
-2	6	6
6	6	8

H	T	O
5	13	10
<del>6</del>	<del>4</del>	<del>0</del>
-3	7	6
2	6	4

### Subtraction Problems

1. 

H	T	O
5	13	15
<del>6</del>	<del>4</del>	<del>5</del>
-5	9	8
0	4	7

2. 

H	T	O
6	9	10
<del>7</del>	<del>0</del>	<del>0</del>
-2	1	5
4	8	5

 fishes

3. 

H	T	O
5	9	3
<del>4</del>	<del>8</del>	<del>0</del>
1	1	3

 stamps

4. 

H	T	O
5	14	10
<del>6</del>	<del>3</del>	<del>0</del>
-4	7	5
1	7	5

 kites

5. 

H	T	O
1	9	15
<del>2</del>	<del>0</del>	<del>5</del>
-1	8	6
0	1	9

 phones

6. 

H	T	O
7	11	14
<del>8</del>	<del>2</del>	<del>4</del>
-5	3	8
2	8	6

 sheets

7. 

H	T	O
6	14	11
<del>7</del>	<del>3</del>	<del>1</del>
-5	5	2
1	9	9



## 7 More Multiplication

### Exercise

Multiply the following :

Ans.

H	T	O
	2	
	4	5
	×	5
2	2	5

H	T	O
	4	
	5	6
	×	8
4	4	8

H	T	O
	6	
	6	7
	×	9
6	0	3

H	T	O
	4	
	7	6
	×	8
6	0	8

H	T	O
	②	
	5	4
	×	6
3	2	4

H	T	O
	①	
	4	5
	×	3
1	3	5

H	T	O
	②	
	3	7
	×	4
1	4	8

H	T	O
	②	
	8	9
	×	3
2	6	7

H	T	O
	①	
	4	3
	×	6
2	5	8

H	T	O
	②	
	6	5
	×	4
2	6	0

H	T	O
	④	
	7	6
	×	7
5	3	2

H	T	O
	⑤	
	8	7
	×	8
6	9	6

H	T	O
	⑦	
	9	8
	×	9
8	8	2

H	T	O
	②	
	8	3
	×	8
6	6	4

H	T	O
	②	
	7	4
	×	7
5	1	8

H	T	O
	⑥	
	6	8
	×	8
5	4	4

### Multiplication with Regrouping Ones and Tens

#### Exercise

Multiply the following :

Ans.

H	T	O
○	①	
4	2	5
	×	2
8	5	0

H	T	O
○	①	
3	1	6
	×	2
6	3	2

H	T	O
○	①	
2	2	5
	×	3
6	7	5

H	T	O
○	①	
3	2	5
	×	3
9	7	5

H	T	O
○	①	
3	3	5
	×	2
6	7	0

H	T	O
○	①	
4	2	8
	×	2
8	5	6

H	T	O
④	②	
1	9	5
	×	5
9	7	5

H	T	O
②	⑤	
1	3	8
	×	7
9	6	6

### Multiplication Problems

Ans. 1.

H	T	O
	①	
	5	4
	×	3
1	6	2

 km

It travels 162 km in 3 hours.

2.

H	T	O
	②	
	2	4
	×	5
1	2	0

 bottles

5 crates will have 120 bottles.

3.

H	T	O
	④	
	3	8
	×	6
2	2	8

 trees

228 trees are there in the garden.

4.

H	T	O
	①	
	5	4
	×	3
1	6	2

 km

He had 50 calves.

5.

H	T	O
	②	
	2	4
	×	5
1	2	0

 bottles

Such magazines contain 580 pages.

6.

H	T	O
	④	
	3	8
	×	6
2	2	8

 trees

6265 people can travel in such trains.



7.

$$\begin{array}{r}
 \textcircled{2} \\
 4 \ 5 \ 0 \\
 \times \ 8 \\
 \hline
 3 \ 6 \ 0 \ 0
 \end{array}$$

students

3600 students are there in 8 such schools.



## 8 Division

### Sharing into Equal Parts

- a. **Put 12 balls into 3 baskets.**  
 12 shared equally by **3** baskets.  
 Each basket has **4** balls.
- b. **Put 18 balls into 6 baskets.**  
 18 shared equally by **6** baskets.  
 Each basket has **3** balls.
- c. **Put 15 balls in 5 baskets.**  
 15 shared equally by **5** baskets.  
 Each basket has **3** balls.
- d. **Put 8 balls in 4 baskets.**  
 8 shared equal by **4** baskets.  
 Each basket has **2** balls.

### Dividing into Equal Groups

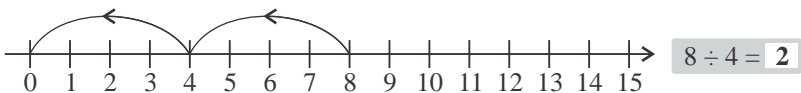
- b. **You have 18 books. You put 6 books into one bag. How many bags are needed?**  
 18 in equal groups of **6** each, is **3** groups.  
**3** bags are needed to put 18 books.
- c. **You have 24 marbles. You put 3 marbles into one plate. How many plates are needed?**  
**24** in equal groups of **3** each, is **8** groups.  
**8** plates are needed to put **24** marbles.

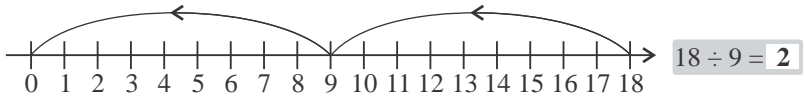
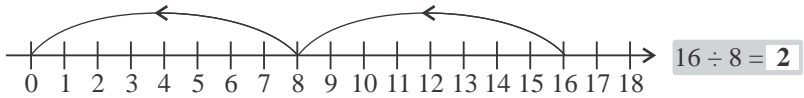
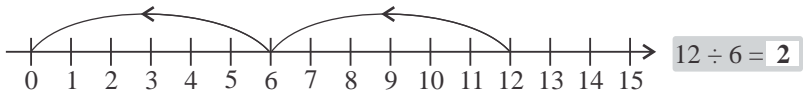
### Division on the Number Line

Exercise

**Divide on the number line :**

**Ans.**





### Exercise

Divide the following :

Ans.

$18 \div 2 = 9$	$45 \div 5 = 9$	$80 \div 8 = 10$
$30 \div 6 = 5$	$7 \div 7 = 1$	$21 \div 7 = 3$
$80 \div 10 = 8$	$20 \div 5 = 4$	$54 \div 6 = 9$
$56 \div 7 = 8$	$15 \div 3 = 5$	$2 \div 2 = 1$
$63 \div 9 = 7$	$24 \div 6 = 4$	$40 \div 5 = 8$
$14 \div 2 = 7$	$40 \div 4 = 10$	$45 \div 9 = 5$
$40 \div 8 = 5$	$18 \div 3 = 6$	$35 \div 7 = 5$
$24 \div 4 = 6$	$4 \div 4 = 1$	$20 \div 5 = 4$
$12 \div 2 = 6$	$8 \div 4 = 2$	$48 \div 8 = 6$
$36 \div 6 = 6$	$12 \div 3 = 4$	$36 \div 4 = 9$
$35 \div 5 = 7$	$24 \div 6 = 4$	
$27 \div 3 = 9$		
$28 \div 7 = 4$		
$8 \div 2 = 4$		

### Short Method and Long Method

Exercise

1. Divide by the short method :

Ans.

$6 \overline{)24}$	$5 \overline{)30}$	$8 \overline{)48}$	$3 \overline{)27}$	$6 \overline{)54}$	$9 \overline{)36}$
$4$	$6$	$6$	$9$	$9$	$4$
$4 \overline{)16}$	$7 \overline{)35}$	$4 \overline{)24}$	$6 \overline{)36}$	$3 \overline{)15}$	$5 \overline{)20}$
$4$	$5$	$6$	$6$	$5$	$4$
$7 \overline{)49}$	$2 \overline{)14}$	$9 \overline{)81}$	$10 \overline{)40}$	$2 \overline{)18}$	$2 \overline{)10}$
$7$	$7$	$9$	$4$	$9$	$5$

**2. Divide by the long method :**

**Ans.**

$$\begin{array}{r} 4 \\ 4 \overline{)16} \\ \underline{-16} \\ 0 \end{array}$$

$$\begin{array}{r} 7 \\ 6 \overline{)42} \\ \underline{-42} \\ 0 \end{array}$$

$$\begin{array}{r} 7 \\ 9 \overline{)63} \\ \underline{-63} \\ 0 \end{array}$$

$$\begin{array}{r} 7 \\ 3 \overline{)21} \\ \underline{-21} \\ 0 \end{array}$$

$$\begin{array}{r} 4 \\ 5 \overline{)20} \\ \underline{-20} \\ 0 \end{array}$$

$$\begin{array}{r} 6 \\ 2 \overline{)12} \\ \underline{-12} \\ 0 \end{array}$$

$$\begin{array}{r} 3 \\ 7 \overline{)21} \\ \underline{-21} \\ 0 \end{array}$$

$$\begin{array}{r} 2 \\ 5 \overline{)10} \\ \underline{-10} \\ 0 \end{array}$$

$$\begin{array}{r} 4 \\ 2 \overline{)8} \\ \underline{-8} \\ 0 \end{array}$$

$$\begin{array}{r} 5 \\ 7 \overline{)35} \\ \underline{-35} \\ 0 \end{array}$$

$$\begin{array}{r} 5 \\ 2 \overline{)10} \\ \underline{-10} \\ 0 \end{array}$$

$$\begin{array}{r} 2 \\ 9 \overline{)18} \\ \underline{-18} \\ 0 \end{array}$$

$$\begin{array}{r} 3 \\ 8 \overline{)24} \\ \underline{-24} \\ 0 \end{array}$$

$$\begin{array}{r} 6 \\ 4 \overline{)24} \\ \underline{-24} \\ 0 \end{array}$$

$$\begin{array}{r} 6 \\ 6 \overline{)36} \\ \underline{-36} \\ 0 \end{array}$$

$$\begin{array}{r} 9 \\ 4 \overline{)36} \\ \underline{-36} \\ 0 \end{array}$$

$$\begin{array}{r} 6 \\ 8 \overline{)48} \\ \underline{-48} \\ 0 \end{array}$$

$$\begin{array}{r} 9 \\ 3 \overline{)27} \\ \underline{-27} \\ 0 \end{array}$$

**Word Problems**

**Ans.**  $12 \div 3 = 4$

Each child will get 4 toffees.

$36 \div 4 = 9$

There are 9 children in each house.

$56 \div 8 = 7$

She can make 7 bands with 56 beads.

$40 \div 4 = 10$

There are 10 laddoos in each box.

$40 \div 5 = 8$

8 bottles are kept in each row.

**Towards The Lab**

Do yourself.



**9 Measurement**

**Measuring Lengths**

**1. Write m or cm for the lengths of the following objects :**

- Ans.** a. cm                      b. cm                      c. cm                      d. m  
e. cm                      f. m                      g. cm                      h. cm

**2. Measure the following :**

- Ans.** This pen is **10** cm long.  
This tooth-brush is **7** cm long.

**3. Add :**

- Ans.** a.  $\begin{array}{r} 180 \text{ cm} \\ + 25 \text{ cm} \\ \hline 205 \text{ cm} \end{array}$       b.  $\begin{array}{r} 82 \text{ cm} \\ + 7 \text{ cm} \\ \hline 79 \text{ cm} \end{array}$       c.  $\begin{array}{r} 33 \text{ cm} \\ + 46 \text{ cm} \\ \hline 79 \text{ cm} \end{array}$       d.  $\begin{array}{r} 54 \text{ m} \\ + 28 \text{ m} \\ \hline 82 \text{ m} \end{array}$

e.	$\begin{array}{r} \textcircled{1} \\ 26 \text{ cm} \\ + 96 \text{ cm} \\ \hline 122 \text{ cm} \end{array}$	f.	$\begin{array}{r} \textcircled{1} \\ 135 \text{ m} \\ + 227 \text{ m} \\ \hline 362 \text{ m} \end{array}$	g.	$\begin{array}{r} \textcircled{1} \textcircled{1} \\ 357 \text{ cm} \\ + 148 \text{ cm} \\ \hline 505 \text{ cm} \end{array}$	h.	$\begin{array}{r} \textcircled{1} \\ 209 \text{ m} \\ + 406 \text{ m} \\ \hline 615 \text{ m} \end{array}$
----	---	----	--	----	---	----	--

**4. Subtract :**

Ans. a.	$\begin{array}{r} \textcircled{3} \textcircled{13} \\ 43 \text{ cm} \\ - 28 \text{ cm} \\ \hline 15 \text{ cm} \end{array}$	b.	$\begin{array}{r} 73 \text{ cm} \\ - 51 \text{ cm} \\ \hline 22 \text{ cm} \end{array}$	c.	$\begin{array}{r} 98 \text{ cm} \\ - 54 \text{ cm} \\ \hline 44 \text{ cm} \end{array}$	d.	$\begin{array}{r} 156 \text{ m} \\ - 32 \text{ m} \\ \hline 124 \text{ m} \end{array}$
e.	$\begin{array}{r} \textcircled{7} \textcircled{12} \\ 82 \text{ cm} \\ - 69 \text{ cm} \\ \hline 13 \text{ cm} \end{array}$	f.	$\begin{array}{r} \textcircled{6} \textcircled{15} \\ 75 \text{ cm} \\ - 57 \text{ cm} \\ \hline 18 \text{ cm} \end{array}$	g.	$\begin{array}{r} \textcircled{3} \textcircled{17} \\ 147 \text{ m} \\ - 28 \text{ m} \\ \hline 119 \text{ m} \end{array}$	h.	$\begin{array}{r} \textcircled{3} \textcircled{12} \textcircled{10} \\ 420 \text{ cm} \\ - 43 \text{ cm} \\ \hline 387 \text{ cm} \end{array}$

Measuring Mass

Exercise

**1. Add :**

Ans. a.	$\begin{array}{r} \textcircled{1} \\ 35 \text{ kg} \\ + 46 \text{ kg} \\ \hline 81 \text{ kg} \end{array}$	b.	$\begin{array}{r} \textcircled{1} \\ 18 \text{ g} \\ + 23 \text{ g} \\ \hline 41 \text{ g} \end{array}$	c.	$\begin{array}{r} \textcircled{1} \\ 75 \text{ kg} \\ + 25 \text{ kg} \\ \hline 100 \text{ kg} \end{array}$	d.	$\begin{array}{r} 521 \text{ g} \\ + 48 \text{ g} \\ \hline 569 \text{ g} \end{array}$
e.	$\begin{array}{r} \textcircled{1} \\ 237 \text{ kg} \\ + 48 \text{ kg} \\ \hline 285 \text{ kg} \end{array}$	f.	$\begin{array}{r} 652 \text{ kg} \\ + 43 \text{ kg} \\ \hline 695 \text{ kg} \end{array}$	g.	$\begin{array}{r} \textcircled{1} \textcircled{1} \\ 332 \text{ kg} \\ + 279 \text{ kg} \\ \hline 611 \text{ kg} \end{array}$	h.	$\begin{array}{r} \textcircled{1} \textcircled{1} \\ 496 \text{ g} \\ + 385 \text{ g} \\ \hline 881 \text{ g} \end{array}$

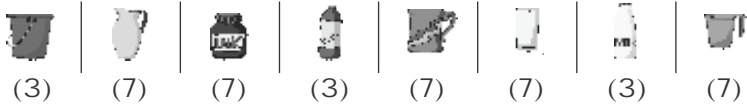
**4. Subtract :**

Ans. a.	$\begin{array}{r} \textcircled{1} \\ 235 \text{ kg} \\ - 83 \text{ kg} \\ \hline 152 \text{ kg} \end{array}$	b.	$\begin{array}{r} 64 \text{ g} \\ - 43 \text{ g} \\ \hline 21 \text{ g} \end{array}$	c.	$\begin{array}{r} \textcircled{7} \textcircled{18} \\ 88 \text{ kg} \\ - 49 \text{ kg} \\ \hline 39 \text{ kg} \end{array}$	d.	$\begin{array}{r} \textcircled{11} \textcircled{13} \\ 123 \text{ g} \\ - 57 \text{ g} \\ \hline 66 \text{ g} \end{array}$
e.	$\begin{array}{r} \textcircled{1} \textcircled{16} \textcircled{10} \\ 270 \text{ kg} \\ - 83 \text{ kg} \\ \hline 187 \text{ kg} \end{array}$	f.	$\begin{array}{r} \textcircled{7} \textcircled{9} \textcircled{13} \\ 803 \text{ kg} \\ - 514 \text{ kg} \\ \hline 289 \text{ kg} \end{array}$	g.	$\begin{array}{r} \textcircled{6} \textcircled{9} \textcircled{12} \\ 702 \text{ kg} \\ - 694 \text{ kg} \\ \hline 008 \text{ kg} \end{array}$	h.	$\begin{array}{r} \textcircled{8} \textcircled{9} \textcircled{10} \\ 900 \text{ g} \\ - 462 \text{ g} \\ \hline 438 \text{ g} \end{array}$

## Exercise

1. Tick (3) the objects that have capacity of more than a litre. Cross (7) the ones that holds liquid less than a litre :

Ans.



2. Write what unit (l/ml) will you use to measure the following?

Ans. a. l                      b. ml                      c. ml                      d. ml  
 e. ml                      f. l                      g. ml                      h. l  
 i. ml                      j. l

3. Add :

Ans. a. 
$$\begin{array}{r} \textcircled{1} \\ 73 \text{ ml} \\ + 52 \text{ ml} \\ \hline 125 \text{ ml} \end{array}$$
      b. 
$$\begin{array}{r} \textcircled{1} \\ 9 \text{ l} \\ + 25 \text{ l} \\ \hline 34 \text{ l} \end{array}$$
      c. 
$$\begin{array}{r} \textcircled{1} \\ 27 \text{ ml} \\ + 58 \text{ ml} \\ \hline 85 \text{ ml} \end{array}$$
      d. 
$$\begin{array}{r} \textcircled{1} \\ 167 \text{ l} \\ + 25 \text{ l} \\ \hline 192 \text{ l} \end{array}$$

e. 
$$\begin{array}{r} \textcircled{1} \textcircled{1} \\ 345 \text{ ml} \\ + 57 \text{ ml} \\ \hline 402 \text{ ml} \end{array}$$
      f. 
$$\begin{array}{r} \textcircled{1} \\ 528 \text{ l} \\ + 266 \text{ l} \\ \hline 794 \text{ l} \end{array}$$
      g. 
$$\begin{array}{r} \textcircled{1} \\ 650 \text{ ml} \\ + 271 \text{ ml} \\ \hline 921 \text{ ml} \end{array}$$
      h. 
$$\begin{array}{r} \textcircled{1} \textcircled{1} \\ 405 \text{ l} \\ + 295 \text{ l} \\ \hline 700 \text{ l} \end{array}$$

4. Subtract :

Ans. a. 
$$\begin{array}{r} \textcircled{2} \textcircled{13} \\ 342 \text{ l} \\ - 56 \text{ l} \\ \hline 286 \text{ l} \end{array}$$
      b. 
$$\begin{array}{r} \textcircled{8} \textcircled{12} \\ 92 \text{ l} \\ - 45 \text{ l} \\ \hline 47 \text{ l} \end{array}$$
      c. 
$$\begin{array}{r} \textcircled{4} \textcircled{10} \\ 88 \text{ ml} \\ - 36 \text{ ml} \\ \hline 14 \text{ ml} \end{array}$$
      d. 
$$\begin{array}{r} \textcircled{2} \textcircled{14} \textcircled{11} \\ 388 \text{ l} \\ - 75 \text{ l} \\ \hline 276 \text{ l} \end{array}$$

e. 
$$\begin{array}{r} \textcircled{9} \textcircled{10} \\ 100 \text{ ml} \\ - 45 \text{ ml} \\ \hline 055 \text{ ml} \end{array}$$
      f. 
$$\begin{array}{r} \textcircled{8} \textcircled{9} \textcircled{14} \\ 904 \text{ l} \\ - 766 \text{ l} \\ \hline 138 \text{ l} \end{array}$$
      g. 
$$\begin{array}{r} \textcircled{0} \textcircled{13} \\ 488 \text{ ml} \\ - 205 \text{ ml} \\ \hline 208 \text{ ml} \end{array}$$
      h. 
$$\begin{array}{r} \textcircled{6} \textcircled{13} \textcircled{17} \\ 747 \text{ l} \\ - 549 \text{ l} \\ \hline 198 \text{ l} \end{array}$$

## Word Problems

2.

$$\begin{array}{r} \textcircled{7} \textcircled{10} \\ 88 \text{ cm} \\ - 35 \text{ cm} \\ \hline 45 \text{ cm} \end{array}$$

Length of left ribbon is 45 cm.

3.

$$\begin{array}{r} 28 \text{ cm} \\ - 14 \text{ cm} \\ \hline 14 \text{ cm} \end{array}$$

Varun's train is 14 cm.

4.

$$\begin{array}{r} \textcircled{3} \textcircled{14} \\ 44 \text{ metres} \\ - 37 \text{ metres} \\ \hline 07 \text{ metres} \end{array}$$

He returned 7 metres cloth.

$$\begin{array}{r} 18 \text{ m} \\ - 7 \text{ m} \\ \hline 11 \text{ m} \end{array}$$

$$\begin{array}{r} 14 \text{ m} \\ - 8 \text{ m} \\ \hline 6 \text{ m} \end{array}$$

6 m is left.

Towards The Lab

Do yourself

## 10 Money

### Writing Rupees and Paise

Exercise

1. Add and write the answer in box :

Ans.  = 75 paise

 = 100 paise

 = 1.25 paise

2. Write in words :

- Ans. ₹ 10.75 = Ten rupees and seventy-five paise  
 ₹ 500.75 = Five hundred rupees and seventy-five paise  
 ₹ 260.50 = Two hundred sixty rupees and fifty paise  
 ₹ 2.20 = Two rupees and twenty paise

3. Write in figures :

Ans. Forty rupees and fifty paise = ₹ 40.50

Fifteen rupees and twenty-five paise = ₹ 15.25

Twenty rupees and forty paise = ₹ 20.40

### Adding Money

Exercise

1. Add :

Ans. a. 
$$\begin{array}{r} \text{p} \\ 10 \\ + 25 \\ \hline 35 \end{array}$$

b. 
$$\begin{array}{r} \text{p} \\ 25 \\ + 25 \\ \hline 50 \end{array}$$

c. 
$$\begin{array}{r} \text{p} \\ 25 \\ + 50 \\ \hline 75 \end{array}$$

d. 
$$\begin{array}{r} \text{p} \\ 10 \\ + 5 \\ \hline 15 \end{array}$$

e. 
$$\begin{array}{r} \text{p} \\ 32 \\ + 66 \\ \hline 98 \end{array}$$

f.

$$\begin{array}{r} \phantom{0} \text{ p} \\ 20 \ 10 \\ + 3 \ 10 \\ \hline 23 \ 20 \end{array}$$

g.

$$\begin{array}{r} \phantom{0} \text{ p} \\ \textcircled{1} \\ 15 \ 00 \\ + 25 \ 50 \\ \hline 40 \ 50 \end{array}$$

h.

$$\begin{array}{r} \phantom{0} \text{ p} \\ \textcircled{1} \\ 100 \ 35 \\ + 50 \ 25 \\ \hline 150 \ 60 \end{array}$$

i.

$$\begin{array}{r} \phantom{0} \text{ p} \\ \textcircled{1} \quad \textcircled{1} \\ 125 \ 25 \\ + 125 \ 45 \\ \hline 250 \ 70 \end{array}$$

2. Add the following :

Ans. a.

$$\begin{array}{r} \phantom{0} \\ 23 \ .30 \\ + 50 \ .60 \\ \hline 73 \ .90 \end{array}$$

b.

$$\begin{array}{r} \phantom{0} \\ 50 \ .55 \\ + 43 \ .35 \\ \hline 93 \ .90 \end{array}$$

c.

$$\begin{array}{r} \phantom{0} \\ 37 \ .45 \\ + 32 \ .35 \\ \hline 69 \ .80 \end{array}$$

d.

$$\begin{array}{r} \phantom{0} \\ 10 \ .00 \\ + 20 \ .25 \\ + 45 \ .50 \\ \hline 75 \ .75 \end{array}$$

e.

$$\begin{array}{r} \textcircled{1} \\ 64 \ .25 \\ + 36 \ .20 \\ \hline 100 \ .45 \end{array}$$

f.

$$\begin{array}{r} \textcircled{1} \\ 118 \ .50 \\ + 502 \ .20 \\ \hline 620 \ .70 \end{array}$$

g.

$$\begin{array}{r} \textcircled{1} \textcircled{1} \quad \textcircled{1} \\ 643 \ .75 \\ + 278 \ .15 \\ \hline 921 \ .90 \end{array}$$

h.

$$\begin{array}{r} \phantom{0} \\ 10 \ .00 \\ + 20 \ .25 \\ + 45 \ .50 \\ \hline 75 \ .75 \end{array}$$

Exercise

1. Add :

Ans. a.

$$\begin{array}{r} \phantom{0} \text{ p} \\ \textcircled{1} \\ 60 \\ + 40 \\ \hline 100 \end{array}$$

b.

$$\begin{array}{r} \phantom{0} \text{ p} \\ \textcircled{1} \\ 55 \\ + 45 \\ \hline 100 \end{array}$$

c.

$$\begin{array}{r} \phantom{0} \text{ p} \\ \textcircled{1} \\ 75 \\ + 55 \\ \hline 130 \end{array}$$

d.

$$\begin{array}{r} \phantom{0} \text{ p} \\ \textcircled{1} \\ 65 \\ + 40 \\ \hline 105 \end{array}$$

e.

$$\begin{array}{r} \phantom{0} \text{ p} \\ 12 \ 25 \\ + 40 \\ \hline 12 \ 65 \end{array}$$

f.

$$\begin{array}{r} \phantom{0} \text{ p} \\ \textcircled{1} \\ 20 \ 30 \\ + 68 \ 70 \\ \hline 89 \ 00 \end{array}$$

g.

$$\begin{array}{r} \phantom{0} \text{ p} \\ \textcircled{1} \textcircled{1} \\ 127 \ 55 \\ + 43 \ 60 \\ \hline 171 \ 15 \end{array}$$

h.

$$\begin{array}{r} \phantom{0} \text{ p} \\ \textcircled{1} \textcircled{1} \textcircled{1} \textcircled{1} \\ 564 \ 35 \\ + 137 \ 75 \\ \hline 702 \ 10 \end{array}$$

2. Add the following :

Ans. a.

$$\begin{array}{r} \textcircled{1} \textcircled{1} \quad \textcircled{1} \\ 6 \ .75 \\ + 14 \ .35 \\ \hline 21 \ .10 \end{array}$$

b.

$$\begin{array}{r} \phantom{0} \\ 15 \ .85 \\ + 3 \ .20 \\ \hline 19 \ .05 \end{array}$$

c.

$$\begin{array}{r} \textcircled{1} \textcircled{1} \quad \textcircled{1} \\ 63 \ .55 \\ + 26 \ .55 \\ \hline 90 \ .10 \end{array}$$

d.

$$\begin{array}{r} \textcircled{1} \quad \textcircled{1} \\ 10 \ .25 \\ + 15 \ .25 \\ + 20 \ .50 \\ \hline 46 \ .00 \end{array}$$

e.

$$\begin{array}{r} \textcircled{1} \textcircled{2} \\ 47 \ .83 \\ + 42 \ .65 \\ + 25 \ .80 \\ \hline 116 \ .28 \end{array}$$

f.

$$\begin{array}{r} \textcircled{1} \quad \textcircled{1} \\ 643 \ .38 \\ + 420 \ .50 \\ + 340 \ .50 \\ \hline 1404 \ .38 \end{array}$$

g.

$$\begin{array}{r} \textcircled{1} \textcircled{1} \textcircled{1} \textcircled{1} \\ 123 \ .45 \\ + 234 \ .55 \\ + 45 \ .10 \\ \hline 403 \ .10 \end{array}$$

h.

$$\begin{array}{r} \textcircled{1} \quad \textcircled{1} \\ 232 \ .00 \\ + 421 \ .45 \\ + 165 \ .90 \\ \hline 819 \ .35 \end{array}$$

## Word Problems

$$\begin{array}{r} \overset{\textcircled{1}}{\phantom{0}} 15 \\ + \phantom{0} 12 \\ \hline \phantom{0} 27 \end{array}$$

She spend ` 27 in all.

$$\begin{array}{r} \overset{\textcircled{1}}{\phantom{0}} 18.50 \\ + \phantom{0} 5.00 \\ \hline \phantom{0} 23.50 \end{array}$$

New cost is ` 23.50.

$$\begin{array}{r} \overset{\textcircled{1}}{\phantom{0}} \overset{\textcircled{1}}{\phantom{0}} \\ \phantom{0} 45.50 \\ + \phantom{0} 8.50 \\ \hline \phantom{0} 54.00 \end{array}$$

We need ` 54 to buy both.

$$\begin{array}{r} \overset{\textcircled{1}}{\phantom{0}} \\ \phantom{0} 250 \\ \phantom{0} 350 \\ + \phantom{0} 100 \\ \hline \phantom{0} 700 \end{array}$$

He spend ` 700 in all.

$$\begin{array}{r} \phantom{0} 120.75 \\ + \phantom{0} 25.00 \\ \hline \phantom{0} 145.75 \end{array}$$

She have ` 145.75.

## Subtracting Money

### Exercise

#### 1. Subtract :

Ans. a.

$$\begin{array}{r} \overset{\textcircled{p}}{\phantom{0}} 95 \\ - \phantom{0} 20 \\ \hline \phantom{0} 75 \end{array}$$

b.

$$\begin{array}{r} \overset{\textcircled{p}}{\phantom{0}} 55 \\ - \phantom{0} 25 \\ \hline \phantom{0} 30 \end{array}$$

c.

$$\begin{array}{r} \overset{\textcircled{p}}{\phantom{0}} \overset{\textcircled{10}}{\phantom{0}} \\ \phantom{0} 20 \\ - \phantom{0} 25 \\ \hline \phantom{0} 05 \end{array}$$

d.

$$\begin{array}{r} \overset{\textcircled{p}}{\phantom{0}} \overset{\textcircled{14}}{\phantom{0}} \\ \phantom{0} 50 \\ - \phantom{0} 29 \\ \hline \phantom{0} 35 \end{array}$$

e.

$$\begin{array}{r} \overset{\textcircled{p}}{\phantom{0}} \overset{\textcircled{12}}{\phantom{0}} \overset{\textcircled{12}}{\phantom{0}} \\ \phantom{0} 100 \\ - \phantom{0} 66 \\ \hline \phantom{0} 66 \end{array}$$

f.

$$\begin{array}{r} \overset{\textcircled{p}}{\phantom{0}} \\ \phantom{0} 7550 \\ - \phantom{0} 400 \\ \hline \phantom{0} 7150 \end{array}$$

g.

$$\begin{array}{r} \overset{\textcircled{p}}{\phantom{0}} \overset{\textcircled{17}}{\phantom{0}} \\ \phantom{0} 4765 \\ - \phantom{0} 1850 \\ \hline \phantom{0} 2915 \end{array}$$

h.

$$\begin{array}{r} \overset{\textcircled{p}}{\phantom{0}} \overset{\textcircled{12}}{\phantom{0}} \overset{\textcircled{410}}{\phantom{0}} \\ \phantom{0} 12650 \\ - \phantom{0} 5425 \\ \hline \phantom{0} 07225 \end{array}$$

i.

$$\begin{array}{r} \overset{\textcircled{p}}{\phantom{0}} \overset{\textcircled{5912}}{\phantom{0}} \overset{\textcircled{710}}{\phantom{0}} \\ \phantom{0} 60280 \\ - \phantom{0} 17675 \\ \hline \phantom{0} 42605 \end{array}$$

#### 2. Subtract the following :

Ans. a.

$$\begin{array}{r} \overset{\textcircled{113}}{\phantom{0}} \\ \phantom{0} 23.25 \\ - \phantom{0} 8.25 \\ \hline \phantom{0} 15.00 \end{array}$$

b.

$$\begin{array}{r} \overset{\textcircled{410}}{\phantom{0}} \\ \phantom{0} 34.80 \\ - \phantom{0} 22.35 \\ \hline \phantom{0} 12.15 \end{array}$$

c.

$$\begin{array}{r} \overset{\textcircled{513}}{\phantom{0}} \overset{\textcircled{710}}{\phantom{0}} \\ \phantom{0} 63.80 \\ - \phantom{0} 46.45 \\ \hline \phantom{0} 17.35 \end{array}$$

d.

$$\begin{array}{r} \overset{\textcircled{513}}{\phantom{0}} \overset{\textcircled{710}}{\phantom{0}} \\ \phantom{0} 98.80 \\ - \phantom{0} 76.75 \\ \hline \phantom{0} 14.05 \end{array}$$

e.

$$\begin{array}{r} \overset{\textcircled{01011}}{\phantom{0}} \\ \phantom{0} 111.50 \\ - \phantom{0} 83.00 \\ \hline \phantom{0} 028.50 \end{array}$$

f.

$$\begin{array}{r} \overset{\textcircled{1916}}{\phantom{0}} \overset{\textcircled{510}}{\phantom{0}} \\ \phantom{0} 206.60 \\ - \phantom{0} 188.25 \\ \hline \phantom{0} 018.35 \end{array}$$

g.

$$\begin{array}{r} \overset{\textcircled{61312}}{\phantom{0}} \overset{\textcircled{810}}{\phantom{0}} \\ \phantom{0} 742.90 \\ - \phantom{0} 274.55 \\ \hline \phantom{0} 468.35 \end{array}$$

h.

$$\begin{array}{r} \overset{\textcircled{81618}}{\phantom{0}} \\ \phantom{0} 978.75 \\ - \phantom{0} 889.10 \\ \hline \phantom{0} 089.65 \end{array}$$

### Exercise

#### 1. Subtract :

Ans. a.

$$\begin{array}{r} \overset{\textcircled{15}}{\phantom{0}} \overset{\textcircled{120}}{\phantom{0}} \\ \phantom{0} 1620 \\ - \phantom{0} 450 \\ \hline \phantom{0} 1170 \end{array}$$

b.

$$\begin{array}{r} \overset{\textcircled{64}}{\phantom{0}} \overset{\textcircled{130}}{\phantom{0}} \\ \phantom{0} 6530 \\ - \phantom{0} 2460 \\ \hline \phantom{0} 4070 \end{array}$$

c.

$$\begin{array}{r} \overset{\textcircled{91}}{\phantom{0}} \overset{\textcircled{150}}{\phantom{0}} \\ \phantom{0} 9250 \\ - \phantom{0} 4575 \\ \hline \phantom{0} 4675 \end{array}$$

d.

$$\begin{array}{r} \overset{\textcircled{48}}{\phantom{0}} \overset{\textcircled{100}}{\phantom{0}} \\ \phantom{0} 4900 \\ - \phantom{0} 3775 \\ \hline \phantom{0} 1125 \end{array}$$



e. 
$$\begin{array}{r} \overset{141}{142} \overset{150}{50} \\ - 27 \ 65 \\ \hline 114 \ 85 \end{array}$$

f. 
$$\begin{array}{r} \overset{730}{731} \overset{125}{25} \\ - 54 \ 50 \\ \hline 676 \ 75 \end{array}$$

g. 
$$\begin{array}{r} \overset{401}{402} \overset{155}{55} \\ - 224 \ 75 \\ \hline 177 \ 80 \end{array}$$

h. 
$$\begin{array}{r} \overset{499}{500} \overset{150}{50} \\ - 401 \ 75 \\ \hline 098 \ 75 \end{array}$$

2. Subtract the following :

Ans. a. 
$$\begin{array}{r} \overset{13}{14} \overset{110}{10} \\ - \quad 2.20 \\ \hline \quad 11.90 \end{array}$$

b. 
$$\begin{array}{r} \overset{42}{43} \overset{120}{20} \\ - \quad 33.30 \\ \hline \quad 9.90 \end{array}$$

c. 
$$\begin{array}{r} \overset{79}{80} \overset{140}{40} \\ - \quad 79.55 \\ \hline \quad 0.85 \end{array}$$

d. 
$$\begin{array}{r} \overset{89}{90} \overset{125}{25} \\ - \quad 84.75 \\ \hline \quad 5.50 \end{array}$$

e. 
$$\begin{array}{r} \overset{253}{254} \overset{100}{00} \\ - \quad 23.25 \\ \hline \quad 230.75 \end{array}$$

f. 
$$\begin{array}{r} \overset{364}{365} \overset{100}{00} \\ - \quad 123.50 \\ \hline \quad 241.50 \end{array}$$

g. 
$$\begin{array}{r} \overset{632}{633} \overset{175}{75} \\ - \quad 462.80 \\ \hline \quad 170.95 \end{array}$$

h. 
$$\begin{array}{r} \overset{511}{512} \overset{130}{30} \\ - \quad 256.65 \\ \hline \quad 255.65 \end{array}$$

Word Problems

2. 
$$\begin{array}{r} \overset{99}{100} \overset{100}{00} \\ - \quad 70.50 \\ \hline \quad 29.50 \end{array}$$

Now, she have ` 29.50. Jill have ` 176.40

3. 
$$\begin{array}{r} \overset{249}{250} \overset{100}{00} \\ - \quad 73.60 \\ \hline \quad 176.40 \end{array}$$

4. 
$$\begin{array}{r} \overset{99}{100} \overset{100}{00} \\ - \quad 25.75 \\ \hline \quad 74.25 \end{array}$$

The cost of sauce is ` 74.25

5. 
$$\begin{array}{r} \quad 23.50 \\ - \quad 5.00 \\ \hline \quad 18.50 \end{array}$$

Old cost is ` 18.50

6. 
$$\begin{array}{r} \quad 127 \\ - \quad 34 \\ \hline \quad 93 \end{array}$$

The cost of Maya's doll is ` 93.

Towards The Lab

Do yourself

11 Patterns

Exercise

Look at the patterns and fill up the boxes :

Ans. 

○	△	□	○	△	○	△	○
↓	↑	↓	↑	↓	↑	↓	↑
▮	▮	▮	▮	▮	▮	▮	▮

△	▽	△	▽	△	▽	△	▽
◐	◑	◐	◑	◐	◑	◐	◑

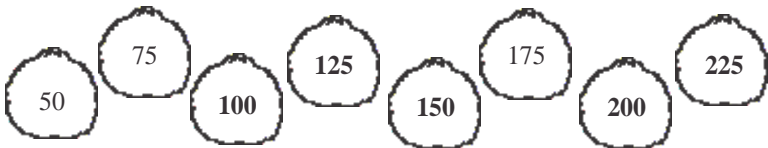
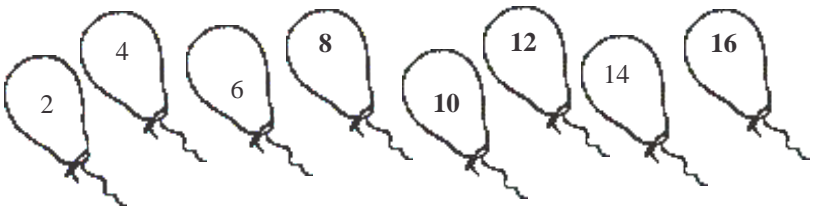
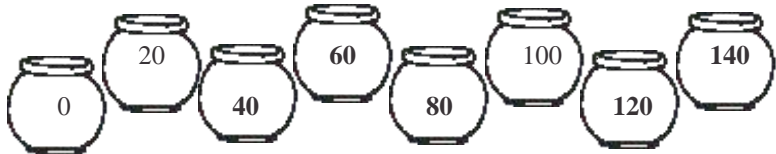
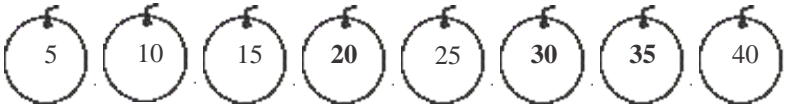
## Leafy pattern

Observe and complete the given table :

Ans.	6	6	9	9	6	6	9	9
	AA	BB	CC	DD	EE	FF	GG	HH
	UP	DOWN	UP	DOWN	UP	DOWN	UP	DOWN
	AZ	AY	AX	AW	AV	AU	AT	AS
	AB	BC	CD	DE	CF	FG	GH	HI
	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT

Let us look at some patterns with numbers. Fill the number in the blank space of each pattern.

Ans.



# 12 Time and Calendar

## Exercise

### 1. Write the time :

Ans.



9:00



5:00



11:00



7:00



12:00



6:00

### 2. Draw the hands to show the time :

Ans.



3 o'clock



8 o'clock



10 o'clock

## Exercise

### 1. Write the time :

Ans.



10:15



10:30



10:45



11:00



2:30



12:30



4:15



1:45



2 : 15



7 : 30



2 : 45



9 : 15



11 : 15



5 : 30



6 : 15



12 : 15

2. Write the time :

Ans.

7 : 45

quarter to eight

6 : 30

Half past 6

12 : 30

Half past 12

9 : 30

Half past 9

5 : 15

quarter past 5

1 : 15

quarter past 1

11 : 45

quarter to 12

4 : 45

quarter to 5

3. Draw the hands to show the time :

Ans.



half past 3



quarter past seven



quarter to four



half past one

Measuring Time

3. Tick (3) the time taken by the following :

Ans.

An advertisement on TV	less than a minute	<input checked="" type="checkbox"/>	more than an hour	<input type="checkbox"/>
A Movie	2 to 3 minutes	<input type="checkbox"/>	2 to 3 hours	<input checked="" type="checkbox"/>
Making instant noodles	a few minutes	<input checked="" type="checkbox"/>	3 to 4 hours	<input type="checkbox"/>
Cartoon show on TV	30 minutes	<input checked="" type="checkbox"/>	2 to 3 hours	<input type="checkbox"/>
Maths class	about 30 minutes	<input checked="" type="checkbox"/>	about 10 minutes	<input type="checkbox"/>
A song	a few minutes	<input checked="" type="checkbox"/>	a few hours	<input type="checkbox"/>
A trip to the zoo	a few minutes	<input type="checkbox"/>	a few hours	<input checked="" type="checkbox"/>

## Exercise

### Fill in the blanks :

**Ans.** 60 minutes make an hour.

24 hours make a day.

7 days make a week.

12 months make a year.

A common year has 365 days.

A leap year has 366 days.

The first day of the week is **Sunday**.

The second month of the year is **February**.

The seventh month of the year is **July**.

May has 31 days and November has 30 days.

February has 29 days in a leap year.

## Calendar

### Exercise

#### 1. Look at the given calendar and fill in the dates :

**Ans.** 4 days after 4 May : 8 May

2 days before 12 June : 10 June

2 days after 20 April : 22 April

7 days before 1 March : 22 February

10 days after 25 January : 4 February

7 days before 2 May : 25 April

#### 2. Look at the given calendar and fill in the blanks :

**Ans.** There are 4 Sundays in October.

5 September (Teacher's day) is a **Thursday**.

2 October (Gandhiji's birthday) falls on a **Wednesday**.

Your birthday is on **Do yourself**. It is a **Do yourself**.

Raj's school opened on the first Monday of April. The date : **1 April 2019**.

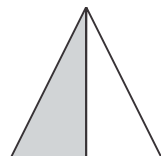
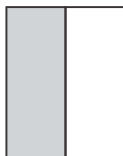
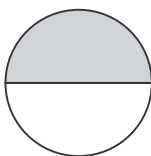
Tina's school opened 7 days after that. The date : **8-April-2019**.



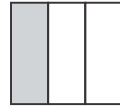
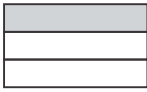
## 13 Fractions

### Exercise

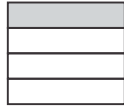
#### 1. Colour half ( $\frac{1}{2}$ ) of each figure given below :



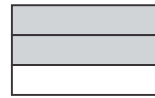
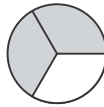
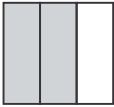
2. Colour one-third ( $\frac{1}{3}$ ) of each figure given below :



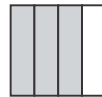
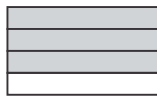
3. Colour one-fourth ( $\frac{1}{4}$ ) of each figure given below :



4. Colour two-third ( $\frac{2}{3}$ ) of each figure given below :



5. Colour three-fourth ( $\frac{3}{4}$ ) of each figure given below :



## 14 Geometrical Shapes

Do yourself

Write the number of sides and corners for each figure :

Ans. a. Sides 3    Corners 3    b. Sides 4    Corners 4  
 c. Sides 4    Corners 4    d. Sides 0    Corners 0

Solid Figures (3-D Shapes)

Exercise

Match the shapes with pictures :

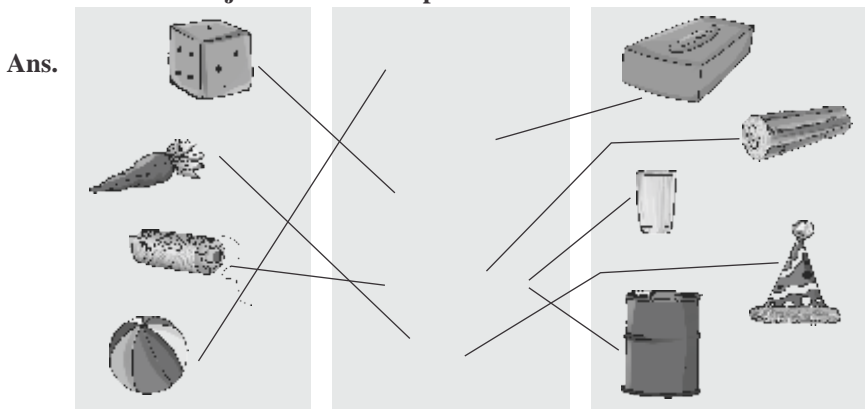
Ans.

Sphere	Cube	Cuboid	Cone	Cylinder

## Faces, Edges and Corners

### Exercise

1. Match the objects with the shape it has :



2. Complete the following table :

Ans.

Cylinder	3	2	0
Cone	2	1	1
Sphere	1	0	0
Cube	6	12	8
Cuboid	6	12	8

## Straight and Curved Lines

### Exercise

1. Put a tick (✓) for horizontal lines :

Ans. i., iv.

2. Put a tick (✓) for slant lines :

Ans. i., iii.

3. Put a tick (✓) for vertical lines :

Ans. ii.

4. Count and write the number of horizontal lines, vertical lines and slant lines in each shape :

Ans. Horizontal lines = 1      Horizontal lines = 2  
 Vertical lines = 0      Vertical lines = 2  
 Slant lines = 2      Slant lines = 0

## Towards The Lab

Do yourself.





**D. Word Problem :**

Ans. 1. 

H	T	O
2	5	
×	2	
5	0	

He had 50 calves.

2. 

	4
3	)12
-	12
	×

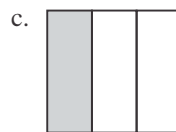
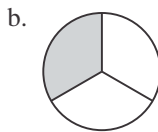
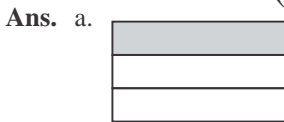
Each child will get 4 toffees.

Model Test Paper-2

**A. Tick (3) the correct option :**

Ans. 1. a.      2. b      3. a      4. b      5. b

**B. Colour one-third ( $\frac{1}{3}$ ) of each figure given below :**



**C. Solve the following :**

**Ans. 1. Add :**

a. 

1	1	
3	5	7 cm
+	1	4 8 cm
5	0	5 cm

b. 

1	1	
4	9	6 g
+	3	8 5 g
8	8	1 g

c. 

1		
1	6	7 l
+	2	5 l
1	9	2 l

d. 

1		
2	0	9 m
+	4	0 6 m
6	1	5 m

**2. Subtract :**

a. 

6	0	9 m
-	4	0 3 m
2	0	6 m

b. 

0	11	13
<del>1</del>	<del>2</del>	<del>3</del> g
-	5	7 g
0	6	6 g

c. 

2	14	11
<del>2</del>	<del>5</del>	<del>1</del> l
-	7	5 l
2	7	6 l

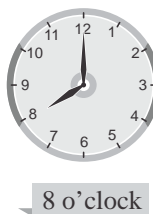
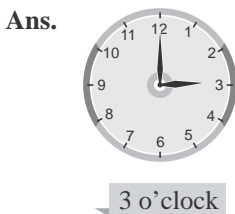
d. 

6	13	
<del>7</del>	<del>3</del>	cm
-	5	4 cm
1	9	cm

**3. Write in words :**

- a. Two hundred sixty rupees and fifty paise  
 b. Five hundred rupees and seventy-five paise

**D. Draw hands to show the time :**



1 Looking Back

1. Write the numerals for the following :

- Ans. a. Three hundred ninety-nine **399**  
 b. Seventy-five **75**  
 c. Two hundred two **202**

2. Write the number names for the following :

- Ans. a. 404 **Four hundred four**  
 b. 595 **Five hundred ninety-five**  
 c. 803 **Eight hundred three**

3. See the pattern and fill in the blanks :

- Ans. a. 6, 8, 10 **12 14 16 18 20**  
 b. 11, 16, 21 **26 31 36 41 46**  
 c. 80, 90, 100 **110 120 130 140 150**

4. Fill in the circles with correct symbol ( $<$ ,  $>$  or  $=$ ) :

- Ans. a. 46  $<$  64      b. 101  $>$  98      c. 647  $>$  467  
 d. 101  $<$  110      e. 900  $>$  90      f. 978  $>$  897

5. Write the following numerals in decreasing order:

- Ans. a. 54, 504, 450, 45, 405, 540 **540, 504, 450, 405, 54, 45**  
 b. 690, 609, 617, 69, 960, 906 **960, 906, 690, 617, 609, 69**

6. Write the following numerals in increasing order :

- Ans. a. 783, 837, 378, 738, 873, 387 **378, 387, 738, 783, 837, 873**  
 b. 91, 19, 109, 90, 901, 190 **19, 90, 91, 109, 190, 901**

7. a. The largest 3-digit number is **999**.  
 b. The smallest 2-digit number is **10**.

8. Write in short form :

- Ans. a.  $200 + 5 = 205$       b.  $800 + 80 + 8 = 888$   
 c.  $400 + 40 = 440$       d.  $500 + 50 + 5 = 555$

9. Add the following :

- Ans. a. 
$$\begin{array}{r} 37 \\ + 22 \\ \hline 59 \end{array}$$
      b. 
$$\begin{array}{r} 3 \\ + 66 \\ \hline 69 \end{array}$$
      c. 
$$\begin{array}{r} 543 \\ + 334 \\ \hline 877 \end{array}$$

10. Find the sum :

- Ans. a.  $444 + 8 + 333 = 785$       b.  $403 + 270 + 77 = 750$       c.  $439 + 251 + 81 = 771$

11. Find the difference :

- Ans. a.  $49 - 22 = 27$       b.  $68 - 57 = 11$       c.  $999 - 666 = 333$

## MCQs

**Tick (3) the correct answer :**

**Ans.** 1. i      2. iii    3. i      4. ii

**12. Subtract :**

**Ans.** a. 42 from 274

$$\begin{array}{r} 274 \\ - 42 \\ \hline 232 \end{array}$$

b. 65 from 493

$$\begin{array}{r} 8 \text{ } 13 \\ 493 \\ - 65 \\ \hline 428 \end{array}$$

c. 187 from 202

$$\begin{array}{r} 202 \\ - 187 \\ \hline 15 \end{array}$$

**13. Fill in the blanks :**

**Ans.** a.  $2 + 2 + 2 + 2 + 2 = 5 \times 2$

b.  $5 + 5 + 5 + 5 + 5 = 3 \times 5$ .

c.  $7 + 7 + 7 + 7 + 7 + 7 = 6 \times 7$

d.  $10 + 10 + 10 + 10 + 10 = 5 \times 10$

**14. Fill in the blanks :**

**Ans.** a.  $4 \times 7 = 28$

b.  $7 \times 7 = 49$

c.  $3 \times 5 = 15$

d.  $5 \times 8 = 40$

e.  $7 \times 8 = 56$

f.  $5 \times 9 = 45$

**15. Put the appropriate sign + or  $\times$  in each:**

**Ans.** a.  $2 \times 2 = 4$

b.  $3 \times 4 = 12$

c.  $7 + 3 = 10$

d.  $3 \times 8 = 24$

e.  $1 + 0 = 1$

f.  $6 \times 0 = 0$

**16. Multiply:**

**Ans.** a.

$$\begin{array}{r} 82 \\ \times 5 \\ \hline 410 \end{array}$$

b.

$$\begin{array}{r} 102 \\ \times 8 \\ \hline 816 \end{array}$$

c.

$$\begin{array}{r} 237 \\ \times 5 \\ \hline 1185 \end{array}$$

**17. One notebook has 68 pages. How many pages are there in 8 such note books?**

**Ans.**  $68 \times 8 = 544$  pages

**18. A month has 30 days. How many days are there in 5 months?**

**Ans.**  $30 \times 5 = 150$  days

**19. Divide using repeated subtraction and find the quotient :**

**Ans.** a.  $21 \div 3 = 7$

b.  $48 \div 8 = 6$

c.  $50 \div 5 = 10$

**20. Divide by the long method and write the quotient and remainder in each case :**

**Ans.** a.  $63 \div 7$

$$\begin{array}{r} 9 \\ 7 \overline{)63} \\ \underline{-63} \\ 0 \end{array}$$

b.  $88 \div 8$

$$\begin{array}{r} 11 \\ 8 \overline{)88} \\ \underline{-8} \\ 8 \\ \underline{-8} \\ 0 \end{array}$$

c.  $70 \div 5$

$$\begin{array}{r} 14 \\ 5 \overline{)70} \\ \underline{-5} \\ 20 \\ \underline{-20} \\ 0 \end{array}$$

Q = 9  
R = 0

Q = 11  
R = 0

Q = 14  
R = 0

**21. Draw clock faces and show the times given below :**

Ans. a. 4 O'clock



b. 11 : 20



c. 12 O'clock



d. Half past three



e. Half past 5



**22. Fill in the blanks :**

Ans. a. The number of days in the month of February is **28 or 29**.

b. The number of days in the month of March is **31**.

c. The last month of the year is **December**.

d. The first month of the year is **January**.

**23. Fill in the blanks :**

Ans. a. 100 cm = **1 m**

b. 1000 m = **1 km**

c. 1000 gm = **1 kg**

d. 1000 ml = **1 litre**

e. **10** 10 paise coins make one rupee.

**24. Add :**

Ans. a. 
$$\begin{array}{r} 25\text{ p} \\ 70\text{ p} \\ + 19\text{ p} \\ \hline 113\text{ p} \end{array}$$

b. 
$$\begin{array}{r} 128 \\ 80 \\ + 45 \\ \hline 245 \end{array}$$

c. 
$$\begin{array}{r} 730 \\ 125 \\ + 85 \\ \hline 940\text{ m} \end{array}$$

d. 
$$\begin{array}{r} 82 \\ + 7 \\ \hline 89\text{ kg} \end{array}$$

e. 
$$\begin{array}{r} 300\text{ g} \\ 275\text{ g} \\ + 150\text{ g} \\ \hline 725\text{ g} \end{array}$$

MCOs

**Tick (3) the correct answer :**

Ans. 1. iv    2. i    3. iii    4. iii

**25. Find the difference between:**

Ans. a. 
$$\begin{array}{r} 430 \\ - 55 \\ \hline 375\text{ ml} \end{array}$$

b. 
$$\begin{array}{r} 250 \\ - 80 \\ \hline 170\text{ l} \end{array}$$

c. 
$$\begin{array}{r} 67 \\ - 30 \\ \hline 37\text{ kg} \end{array}$$

d. 
$$\begin{array}{r} 870 \\ - 435 \\ \hline 435\text{ g} \end{array}$$

26. If 4 kg of grapes cost ₹ 100, what is the cost of 1 kg grapes?

Ans.

$$\begin{array}{r} 25 \\ 4 \overline{)100} \\ \underline{-8} \phantom{0} \\ 20 \\ \underline{-20} \\ \times \phantom{0} \end{array} = ₹ 25$$

27. If 9 notebooks cost ₹ 72, what is the cost of 1 notebook?

$$\begin{array}{r} 8 \\ 9 \overline{)72} \\ \underline{-72} \\ \times \phantom{0} \end{array} = ₹ 8$$

28. a. Black board, slate  
c. Ball, marble

- b. Set square  
d. Soap cake, brick



## 2 4-digit Numbers

### Exercise 2.1

1. Write the numerals :

- Ans. a. 

2	0	2	2
---	---	---	---

  
 b. 

9	9	4	2
---	---	---	---

  
 c. 

5	6	5	4
---	---	---	---

  
 d. 

7	2	9	9
---	---	---	---

  
 e. 

8	2	0	0
---	---	---	---

  
 f. 

2	9	2	6
---	---	---	---

  
 g. 

9	4	4	8
---	---	---	---

2. Fill in the missing numbers :

Ans. a.	999	1000	1001	1002	1003	1004	1005	1006	1007
b.	1576	1577	1578	1579	1580	1581	1582	1583	1584
c.	2568	2569	2570	2571	2572	2573	2574	2575	2576
d.	3287	3288	3289	3290	3291	3292	3293	3294	3295
e.	4345	4346	4347	4348	4349	4350	4351	4352	4353
f.	5228	5229	5230	5231	5232	5233	5234	5235	5236
g.	5663	5664	5665	5666	5667	5668	5669	5670	5671
h.	6780	6781	6782	6783	6784	6785	6786	6787	6788
i.	7540	7541	7542	7543	7544	7545	7546	7547	7548
j.	8335	8336	8337	8338	8339	8340	8341	8342	8343
k.	9887	9888	9889	9890	9391	9892	9893	9894	9895

## MCQs

Fill in the boxes :

Ans. 1. iv      2. ii      3. iv      4. i      5. i

### Exercise 2.2

1. Counting by 2s, write five numerals starting from:

Ans. a. 345                      347 349 351 353 355  
b. 156                        158 160 162 164 166

2. Counting by 5s, write five numerals starting from:

Ans. a. 584                      589 594 599 604 609  
b. 5035                      5040 5045 5050 5055 5060

3. Counting by 10s, write the numerals starting from:

Ans. a. 4936                    4946 4956 4966 4976 4986  
b. 7345                      7355 7365 7375 7385 7395

4. Counting by 100s, write the numerals starting from:

Ans. a. 487                      587 687 787 887 987  
b. 2839                      2939 3039 3139 3239 3339

5. Counting by 1000s, write five numerals starting from:

Ans. a. 327                      1327 2327 3327 4327 5327  
b. 859                        1859 2859 3859 4859 5859

### Exercise 2.3

1. Write the predecessors :

Ans. a. **4389**    4360      b. **4508**    4509      c. **1297**    1298  
d. **7617**    7618      e. **3166**    3167      f. **9799**    9800  
g. **4999**    5000      h. **2005**    2006      i. **7625**    7836

2. Write the successors :

Ans. a. 2159    **2160**      b. 2861    **2862**      c. 6354    **6355**  
d. 5458    **5459**      e. 7120    **7121**      f. 1999    **2000**  
g. 2999    **3000**      h. 1708    **1709**      i. 3112    **3113**

3. Write 5 numbers that come just before the numbers given :

Ans. a. **6415** **6416** **6417** **6418** **6419** 6420  
b. **3411** **3412** **3413** **3414** **3415** 3416  
c. **7360** **7361** **7362** **7363** **7364** 7365

4. Starting from the given number, write 5 numbers that come just after :

Ans. a. 5450    **5451**    **5452**    **5453**    **5454**    **5455**  
b. 6000    **6001**    **6002**    **6003**    **6004**    **6005**  
c. 3614    **3615**    **3616**    **3617**    **3618**    **3619**

## Exercise 2.4

### 1. Write the places of the encircled digits :

- Ans.** a. 3 5 6 **(8)** **Ones**      b. 2 1 **(0)** 8 **Tens**  
 c. 7 9 **(5)** 2 **Tens**      d. 3 **(2)** 1 0 **Hundreds**  
 e. 2 **(4)** 3 3 **Hundreds**      f. 5 **(9)** 7 5 **Hundreds**  
 g. 8 7 **(2)** 9 **Tens**      h. 4 **(7)** 8 9 **Hundreds**  
 i. 7 4 **(6)** 5 **Tens**      j. 2 **(0)** 2 1 **Hundreds**  
 k. **(6)** 5 6 1 **Thousands**      l. 6 **(8)** 1 8 **Hundreds**

### 2. Write the numbers having digits at different places as indicated:

- Ans.** a. Hundreds-3      Tens-0      Ones-6      **306**  
 b. Thousands-5      Hundreds-8      Tens-6      Ones-0      **5860**  
 c. Thousands-6      Hundreds-4      Tens-3      Ones-7      **6437**  
 d. Thousands-9      Hundreds-5      Tens-7      Ones-1      **9571**  
 e. Thousands-3      Hundreds-0      Tens-9      Ones-5      **3095**

### 3. Write place value of the encircled digits:

- Ans.** a. 3 5 6 3 **3**      b. 6 9 4 5 **900**  
 c. 1 3 8 9 **300**      d. 2 9 3 0 **30**  
 e. 3 4 1 3 **3000**      f. 3 8 0 5 **5**  
 g. 7 8 0 5 **800**      h. 9 0 4 5 **0**

## MCQs

### Tick (3) the correct answer :

- Ans.** 1. iii      2. iv      3. ii      4. i      5. iii

## Exercise 2.5

### 1. Write the following numerals in their expanded form:

- Ans.** a. 2108 = **2000** + **100** + **00** + **8**  
 b. 6342 = **6000** + **300** + **40** + **2**  
 c. 5817 = **5000** + **800** + **10** + **7**  
 d. 3089 = **3000** + **000** + **80** + **9**  
 e. 9126 = **9000** + **100** + **20** + **6**  
 f. 2781 = **2000** + **700** + **80** + **1**

### 2. Encircle the correct number:

- Ans.** a. 7 Thousands      4 Tens      7004      **(7040)**      7400  
 b. 8 Hundreds      5 Ones      850      8005      **(805)**  
 c. 5 Thousands      3 Hundreds      4 Tens      5304      **(5340)**      534  
 d. 1 Thousand      5 Ones      **(1005)**      1500      1050

**3. Match the expanded form with its number:**

- Ans.**
- |                          |   |            |
|--------------------------|---|------------|
| a. $8000 + 900 + 5$      | → | iv. 4068   |
| b. $7000 + 100 + 30 + 5$ | → | vii. 153   |
| c. $4000 + 60 + 8$       | → | viii. 9264 |
| d. $2000 + 600 + 10 + 7$ | → | iii. 343   |
| e. $100 + 50 + 3$        | → | vi. 8905   |
| f. $9000 + 200 + 60 + 4$ | → | v. 7135    |
| g. $4000 + 100 + 80$     | → | ii. 4180   |
| h. $300 + 40 + 3$        | → | i. 2617    |

Towards The Lab

Do yourself



## 3 Roman Numerals

### Activity

**Fill in the blanks and boxes where necessary :**

- Ans.**
- $17 = 10 + 7 = \mathbf{X} + \mathbf{VII} = \mathbf{XVII}$
- $18 = 10 + 8 = \mathbf{X} + \mathbf{VIII} = \mathbf{XVIII}$
- $19 = 10 + 9 = \mathbf{X} + \mathbf{IX} = \mathbf{XIX}$
- $20 = \mathbf{10} + \mathbf{10} = \mathbf{X} + \mathbf{X} = \mathbf{XX}$
- $21 = 10 + 10 + 1 = \mathbf{X} + \mathbf{X} + \mathbf{I} = \mathbf{XXI}$
- $25 = \mathbf{10} + 10 + \mathbf{5} = \mathbf{X} + \mathbf{X} + \mathbf{V} = \mathbf{XXV}$
- $29 = 10 + 10 + \mathbf{9} = \mathbf{X} + \mathbf{X} + \mathbf{IX} = \mathbf{XXIX}$
- $30 = 10 + 10 + 10 = \mathbf{X} + \mathbf{X} + \mathbf{X} = \mathbf{XXX}$
- $31 = 10 + 10 + 10 + 1 = \mathbf{X} + \mathbf{X} + \mathbf{X} + \mathbf{I} = \mathbf{XXXI}$
- $36 = \mathbf{10} + \mathbf{10} + \mathbf{10} + \mathbf{6} = \mathbf{X} + \mathbf{X} + \mathbf{X} + \mathbf{VI} = \mathbf{XXXVI}$
- $37 = \mathbf{10} + \mathbf{10} + \mathbf{10} + \mathbf{7} = \mathbf{X} + \mathbf{X} + \mathbf{X} + \mathbf{VII} = \mathbf{XXXVII}$

### Exercise 3

**1. Convert the following into Roman numerals :**

- Ans.**
- |          |          |         |        |        |
|----------|----------|---------|--------|--------|
| a. XXXIV | b. XVIII | c. XIV  | d. XII | e. XXX |
| f. XXXIX | g. XX    | h. XXIX | i. XV  | j. XIX |

**2. Convert the following into Hindu-Arabic numerals :**

- Ans.**
- |       |       |       |       |       |
|-------|-------|-------|-------|-------|
| a. 26 | b. 25 | c. 18 | d. 20 | e. 19 |
| f. 31 | g. 16 | h. 23 | i. 14 | j. 32 |

**3. Put a tick (✓) on the correctly written numbers. Put a cross (✗) on the incorrectly written numbers :**

- Ans.**
- |      |      |      |      |      |
|------|------|------|------|------|
| a. 7 | b. 3 | c. 3 | d. 7 | e. 3 |
| f. 7 | g. 7 | h. 7 | i. 7 | j. 3 |



## MCQs

**Tick (3) the correct answer :**

**Ans. 1. iii    2. iv    3. ii    4. iii    5. iii**

## Activity For Fun

Do yourself



## 4 Addition

### Ways of Adding Two Numbers

**Try this**

$$\begin{array}{r}
 33 + 24 = \underline{\quad} \\
 \quad \downarrow \\
 \boxed{20 + 4} \\
 33 + 20 = 53 \\
 53 + 4 = 57 \\
 \text{So, } 33 + 24 = 57
 \end{array}$$

**Try this**

$$\begin{array}{r}
 75 + 24 = \underline{\quad} \\
 \downarrow \quad \downarrow \\
 \boxed{70 + 5} \quad \boxed{20 + 4} \\
 70 + 20 = 90 \\
 5 + 4 = 9 \\
 90 + 9 = 99 \\
 \text{So, } 75 + 24 = 99
 \end{array}$$

### Exercise 4.1

**Break up the numbers and add the following :**

**Ans. a.**  $56 + 32 = \underline{\quad}$

$$\begin{array}{r}
 \downarrow \quad \downarrow \\
 \boxed{50 + 6} \quad \boxed{30 + 2} \\
 50 + 30 = 80 \\
 6 + 2 = 8 \\
 80 + 8 = 88 \\
 \text{So, } 56 + 32 = 88
 \end{array}$$

**b.**  $63 + 34 = \underline{\quad}$

$$\begin{array}{r}
 \downarrow \quad \downarrow \\
 \boxed{60 + 3} \quad \boxed{30 + 4} \\
 60 + 30 = 90 \\
 3 + 4 = 7 \\
 90 + 7 = 97 \\
 \text{So, } 63 + 34 = 97
 \end{array}$$

### Exercise 4.2

**1. Add these by counting in tens :**

**Ans. a.**  $141 + 54 = \underline{\quad}$

$$\begin{aligned}
 &= 141 + 10 + 10 + 10 + 10 + 10 + 4 \\
 &= 151 + 10 + 10 + 10 + 10 + 4 \\
 &= 161 + 10 + 10 + 10 + 4 \\
 &= 171 + 10 + 10 + 4 \\
 &= 181 + 10 + 10 + 4 \\
 &= 191 + 4 \\
 &= 195
 \end{aligned}$$

**b.**  $136 + 37 = \underline{\quad}$

$$\begin{aligned}
 &= 136 + 10 + 10 + 10 + 4 \\
 &= 166 + 7 \\
 &= 173
 \end{aligned}$$

2. Change one of the numbers into multiples of 10 and add :

a. 
$$\begin{array}{r} 47 \\ + 23 \\ \hline 70 \end{array}$$
     
$$\begin{array}{r} (-7) \\ + 7 \\ \hline 0 \end{array}$$
     
$$\begin{array}{r} \text{T O} \\ 4 0 \\ + 3 0 \\ \hline 7 0 \end{array}$$
     b. 
$$\begin{array}{r} 63 \\ + 54 \\ \hline 117 \end{array}$$
     
$$\begin{array}{r} (-3) \\ + 3 \\ \hline 0 \end{array}$$
     
$$\begin{array}{r} \text{T O} \\ 6 0 \\ + 5 7 \\ \hline 11 7 \end{array}$$

Exercise 4.3

1. Add the following :

Ans. a. 
$$\begin{array}{r} \text{T O} \\ 5 7 \\ + 3 9 \\ \hline 9 6 \end{array}$$
     b. 
$$\begin{array}{r} \text{T O} \\ 4 7 \\ + 3 9 \\ \hline 8 6 \end{array}$$
     c. 
$$\begin{array}{r} \text{T O} \\ 3 2 \\ + 5 8 \\ \hline 9 0 \end{array}$$
     d. 
$$\begin{array}{r} \text{T O} \\ 6 7 \\ + 3 6 \\ \hline 10 3 \end{array}$$

e. 
$$\begin{array}{r} \text{T O} \\ \textcircled{1} \\ 3 3 \\ 2 4 \\ + 3 7 \\ \hline 9 4 \end{array}$$
     f. 
$$\begin{array}{r} \text{T O} \\ \textcircled{1} \\ 6 8 \\ 3 2 \\ + 3 1 \\ \hline 13 1 \end{array}$$
     g. 
$$\begin{array}{r} \text{T O} \\ \textcircled{1} \\ 4 2 \\ 5 7 \\ + 6 3 \\ \hline 16 2 \end{array}$$
     h. 
$$\begin{array}{r} \text{T O} \\ \textcircled{1} \\ 3 3 \\ 4 4 \\ + 5 5 \\ \hline 13 2 \end{array}$$

2. Add the following :

Ans. a. 
$$\begin{array}{r} \text{H T O} \\ \textcircled{1} \\ 6 0 9 \\ + 6 3 4 \\ \hline 12 4 3 \end{array}$$
     b. 
$$\begin{array}{r} \text{H T O} \\ \textcircled{1} \textcircled{1} \\ 3 8 4 \\ 4 5 6 \\ + 1 2 8 \\ \hline 9 6 8 \end{array}$$
     c. 
$$\begin{array}{r} \text{H T O} \\ \textcircled{1} \\ 9 4 3 \\ 2 1 5 \\ + 6 1 3 \\ \hline 17 7 1 \end{array}$$
     d. 
$$\begin{array}{r} \text{H T O} \\ \textcircled{1} \textcircled{1} \\ 4 5 9 \\ 8 3 4 \\ + 1 2 4 \\ \hline 14 1 7 \end{array}$$

Exercise 4.4

1. Find the sum :

Ans. a. 
$$\begin{array}{r} \text{Th H T O} \\ 2 1 5 7 \\ + 4 5 0 2 \\ \hline 6 6 5 9 \end{array}$$
     b. 
$$\begin{array}{r} \text{Th H T O} \\ 2 6 5 9 \\ + 5 1 2 0 \\ \hline 7 7 7 9 \end{array}$$
     c. 
$$\begin{array}{r} \text{Th H T O} \\ 4 6 2 0 \\ + 5 1 2 0 \\ \hline 9 7 4 0 \end{array}$$

2. Add horizontally :

Ans. a.  $3214 + 1532 = 4746$      b.  $4312 + 2654 = 6966$   
 c.  $7314 + 1625 = 8939$      d.  $6710 + 2139 = 8849$

Exercise 4.5

1. Add the following :

Ans. a. 
$$\begin{array}{r} \text{Th H T O} \\ \textcircled{1} \textcircled{1} \textcircled{1} \\ 4 3 4 6 \\ + 1 8 5 6 \\ \hline 6 2 0 2 \end{array}$$
     b. 
$$\begin{array}{r} \text{Th H T O} \\ \textcircled{1} \textcircled{1} \textcircled{1} \\ 4 7 8 2 \\ + 3 2 3 9 \\ \hline 8 0 2 1 \end{array}$$
     c. 
$$\begin{array}{r} \text{Th H T O} \\ \textcircled{1} \textcircled{1} \textcircled{1} \\ 7 1 3 6 \\ + 1 9 7 8 \\ \hline 9 1 1 4 \end{array}$$

**2. Add the following :**

**Ans.** a.  $4349 + 1456 = \mathbf{5805}$   
 c.  $2936 + 1264 = \mathbf{4200}$

b.  $1763 + 1523 = \mathbf{3286}$   
 d.  $7649 + 1891 = \mathbf{9540}$

MCOs

**Fill in the boxes :**

**Ans.** 1. i      2. iii      3. ii      4. ii      5. ii

Exercise 4.6

2. 

	4	7	3
+	5	2	5
	9	9	8

No. of tickets sold  
= 998

3. 

	2	3
	3	4
+	2	2
	7	9

He mend 79 shoes  
in all.

Towards The Lab

4. 

	0	7
	1	1
+	2	1
	3	9

Their Mother's age  
= 39 years.

Do yourself



**5 Subtraction**

Exercise 5.1

**Find the difference :**

a. 

	T	O
	5	4
-	2	3
	3	1

b. 

	T	O
	6	8
-	2	4
	4	4

c. 

	T	O
	3	3
-	1	2
	2	1

d. 

	T	O
	5	7
-	2	6
	3	1

e. 

	H	T	O
	2	2	3
-	2	1	1
	0	1	2

f. 

	H	T	O
	6	8	3
-	2	4	1
	4	4	2

g. 

	H	T	O
	7	1	9
-	2	1	8
	5	0	1

h. 

	H	T	O
	9	9	9
-	3	2	4
	6	7	5

Exercise 5.2

**Solve the following in your notebook :**

**Ans.** a.  $609 - 427 = \mathbf{182}$   
 c.  $640 - 464 = \mathbf{176}$   
 e.  $330 - 221 = \mathbf{109}$

b.  $400 - 332 = \mathbf{68}$   
 d.  $903 - 276 = \mathbf{627}$   
 f.  $405 - 238 = \mathbf{167}$

Exercise 5.3

**Subtract by counting on in your notebook :**

**Ans.** a.  $63 - 15 = \mathbf{48}$   
 c.  $38 - 15 = \mathbf{23}$   
 e.  $52 - 12 = \mathbf{40}$

b.  $33 - 11 = \mathbf{22}$   
 d.  $63 - 14 = \mathbf{49}$   
 f.  $85 - 12 = \mathbf{73}$

### Exercise 5.4

Subtract by using place value in your notebook :

- Ans. a.  $95 - 12 = 83$                       b.  $68 - 35 = 33$   
 c.  $63 - 15 = 48$                           d.  $95 - 47 = 48$   
 e.  $72 - 37 = 35$                           f.  $73 - 45 = 28$

### Exercise 5.5

1. Find the difference :

- Ans. a. 

Th	H	T	O
6	5	8	3
-	4	3	6
2	2	2	1

      b. 

Th	H	T	O
5	6	1	2
-	4	5	0
1	1	1	0

      c. 

Th	H	T	O
5	9	6	2
-	4	1	3
1	8	3	0

2. Arrange vertically and subtract :

- Ans. a.  $6396 - 2162 = 4234$                       b.  $7643 - 5022 = 2621$   
 c.  $5478 - 3257 = 2221$                           d.  $6438 - 2228 = 4210$

### Exercise 5.6

1. Subtract the following :

- Ans. a. 

Th	H	T	O
9	9	11	
<del>4</del>	<del>10</del>	<del>10</del>	
<del>5</del>	<del>0</del>	<del>0</del>	<del>1</del>
-	1	3	5
3	6	4	8

      b. 

Th	H	T	O
1	10	10	
<del>4</del>	<del>10</del>	<del>10</del>	
<del>5</del>	<del>0</del>	<del>0</del>	<del>9</del>
-	3	2	9
1	7	1	4

      c. 

Th	H	T	O
10	9	12	
<del>9</del>	<del>2</del>	<del>9</del>	
<del>9</del>	<del>0</del>	<del>0</del>	<del>2</del>
-	6	1	2
3	1	7	4
- d. 

Th	H	T	O
12	16	8	
<del>3</del>	<del>16</del>	<del>8</del>	
<del>2</del>	<del>1</del>	<del>5</del>	<del>7</del>
-	4	5	0
6	6	5	9

      e. 

Th	H	T	O
10	9	12	
<del>9</del>	<del>7</del>	<del>9</del>	
<del>9</del>	<del>8</del>	<del>0</del>	<del>2</del>
-	2	5	4
7	2	5	9

      f. 

Th	H	T	O
14	17	14	
<del>2</del>	<del>13</del>	<del>14</del>	
<del>3</del>	<del>4</del>	<del>5</del>	<del>6</del>
-	2	5	7
0	8	7	8

2. Subtract by arranging in columns :

- Ans. a. 2728 from 8379 = **5651**                      b. 3781 from 6019 = **2238**  
 c. 1093 from 3902 = **2809**                          d. 4224 from 8003 = **3779**

### Exercise 5.7

1. 

57
- 25
32

      2. 

358
- 124
234

      3. 

956
- 523
433

32 children took the ride on Monday.

Sri Lanka scored 234 runs.

433 students do not play football.

### MCQs

Tick (3) the correct answer :

- Ans. 1. ii      2. i      3. iii      4. ii      5. ii

Do yourself



## 6 Multiplication

### Exercise 6.1

#### 1. Fill in the boxes :

- Ans. a.  $2 \times 8 = 16$       b.  $3 \times 3 = 9$       c.  $4 \times 5 = 20$   
 d.  $3 \times 7 = 21$       e.  $4 \times 4 = 16$       f.  $2 \times 6 = 12$   
 g.  $2 \times 3 = 6$       h.  $8 \times 6 = 48$       i.  $4 \times 5 = 20$

#### 2. Write the multiplication fact for the following :

- Ans. b.  $3 + 3 + 3 + 3 + 3 + 3 + 3 = 21$      $\Rightarrow$   $7 \times 3$   
 c.  $5 + 5 + 5 + 5 + 5 = 25$      $\Rightarrow$   $5 \times 5$   
 d.  $4 + 4 + 4 + 4 + 4 + 4 = 24$      $\Rightarrow$   $6 \times 4$

#### 3. Fill in the boxes :

- Ans. a.  $12 \times 4 = 48$      $\Rightarrow$  **4** is multiplicand.  
 b.  $9 \times 4 = 36$      $\Rightarrow$  **4** is multiplicand.  
 c.  $9 \times 7 = 63$      $\Rightarrow$  **63** is the product.  
 d.  $6 \times 5 = 30$      $\Rightarrow$  **6** is the multiplier.

#### 4. Write the missing numerals :

- Ans. b.  $5 \times 9 = 45$      $\times 5 = 225$       c.  $3 \times 7 = 21$      $\times 3 = 63$   
 d.  $7 \times 4 = 28$      $\times 4 = 112$       e.  $1 \times 6 = 6$      $\times 1 = 6$   
 f.  $5 \times 6 = 30$      $\times 5 = 150$

### Exercise 6.2

#### 1. Fill in the boxes :

- Ans. a.  $22 \times 100 = 2200$     b.  $19 \times 100 = 1900$     c.  $44 \times 100 = 4400$   
 d.  $17 \times 100 = 1700$     e.  $33 \times 100 = 3300$     f.  $77 \times 100 = 7700$

#### 2. Multiply and write the products in the boxes :

- Ans. a.  $10 \times 22 = 220$       b.  $20 \times 13 = 260$   
 c.  $50 \times 15 = 750$       d.  $60 \times 3 = 180$

### MCQs

#### Tick (3) the correct answer :

- Ans. 1. ii      2. iii      3. i      4. iv      5. ii

### Exercise 6.3

#### Find the product :

- a. 

T	O
2	1
$\times$	2
4	2

    b. 

T	O
2	2
$\times$	3
6	6

    c. 

T	O
1	2
$\times$	4
4	8

    d. 

T	O
1	1
$\times$	5
5	5

    e. 

T	O
1	3
$\times$	3
3	9

f.	<b>T</b>	<b>O</b>
	2	4
	×	2
	4	8

g.	<b>T</b>	<b>O</b>
	2	0
	×	4
	8	0

h.	<b>T</b>	<b>O</b>
	3	3
	×	3
	9	9

i.	<b>T</b>	<b>O</b>
	1	3
	×	2
	2	6

j.	<b>T</b>	<b>O</b>
	3	2
	×	2
	6	4

Exercise 6.4

Find the product :

a.	<b>T</b>	<b>O</b>
	①	
	2	5
	×	3
	7	5

b.	<b>T</b>	<b>O</b>
	②	
	2	7
	×	4
	10	8

c.	<b>T</b>	<b>O</b>
	③	
	3	5
	×	6
	21	0

d.	<b>T</b>	<b>O</b>
	①	
	4	3
	×	6
	25	8

e.	<b>T</b>	<b>O</b>
	④	
	4	8
	×	5
	24	0

f.	<b>T</b>	<b>O</b>
	③	
	7	5
	×	7
	52	5

g.	<b>T</b>	<b>O</b>
	⑦	
	4	9
	×	8
	39	2

h.	<b>T</b>	<b>O</b>
	④	
	1	6
	×	7
	11	2

i.	<b>T</b>	<b>O</b>
	③	
	1	8
	×	4
	7	2

j.	<b>T</b>	<b>O</b>
	①	
	3	3
	×	5
	16	5

Exercise 6.5

1. Find the product :

Ans. a. 

<b>H</b>	<b>T</b>	<b>O</b>
①	①	
1	7	3
	×	4
6	9	2

b. 

<b>H</b>	<b>T</b>	<b>O</b>
①	①	
1	6	7
	×	2
3	3	4

c. 

<b>H</b>	<b>T</b>	<b>O</b>
①	②	
2	5	7
	×	3
7	7	1

d. 

<b>H</b>	<b>T</b>	<b>O</b>
①	①	
2	6	9
	×	2
5	3	8

e. 

<b>Th</b>	<b>H</b>	<b>T</b>	<b>O</b>
○	②	○	
3	0	9	3
		×	3
9	2	7	9

f. 

<b>Th</b>	<b>H</b>	<b>T</b>	<b>O</b>
○	②	②	
1	0	2	3
		×	9
9	2	0	7

g. 

<b>Th</b>	<b>H</b>	<b>T</b>	<b>O</b>
②	②	⑤	
1	3	3	9
		×	6
8	0	3	4

2. Write the missing numerals :

Ans. a. 

<b>H</b>	<b>T</b>	<b>O</b>	
○	①		
3	③	3	
	×	5	
1	6	6	5

b. 

<b>H</b>	<b>T</b>	<b>O</b>	
②	6	4	
	×	4	
1	0	5	6

c. 

<b>H</b>	<b>T</b>	<b>O</b>	
5	⑩	6	
	×	5	
2	5	3	0

d. 

<b>H</b>	<b>T</b>	<b>O</b>	
②	②		
4	8	9	
	×	3	
1	④	6	7

e. 

<b>H</b>	<b>T</b>	<b>O</b>	
④	①		
5	6	2	
	×	7	
3	⑨	3	4

f. 

<b>H</b>	<b>T</b>	<b>O</b>	
	①		
4	6	2	
	×	9	
4	1	5	⑧

## Exercise 6.6

### 1. Find the product :

Ans. a. 

Th	H	T	O
		3	
	1	5	
	×	2	7
<hr/>			
1	0	5	
3	0	×	
4	0	5	

 b. 

Th	H	T	O
		0	
	4	2	
	×	5	3
<hr/>			
1	2	6	
2	1	0	×
2	2	2	6

 c. 

Th	H	T	O
		1	
	3	9	
	×	9	2
<hr/>			
	7	8	
3	5	1	×
3	5	8	8

 d. 

Th	H	T	O
		2	
	2	4	
	×	2	7
<hr/>			
1	6	8	
4	8	×	
6	4	8	

e. 

Th	H	T	O
		1	
	7	2	
	×	5	0
<hr/>			
	0	0	
3	6	0	×
3	6	0	0

 f. 

Th	H	T	O
		3	
	2	4	
	×	3	9
<hr/>			
2	1	6	
7	2	×	
9	3	6	

 g. 

Th	H	T	O
		3	
	6	7	
	×	6	5
<hr/>			
3	3	5	
4	0	2	×
4	3	5	5

 h. 

Th	H	T	O
		1	
	4	2	
	×	3	8
<hr/>			
3	3	6	
1	2	6	×
1	5	9	6

i. 

Th	H	T	O
		2	
	5	4	
	×	3	5
<hr/>			
2	7	0	
1	6	2	×
1	8	9	0

 j. 

Th	H	T	O
		0	
	4	1	
	×	3	4
<hr/>			
1	6	4	
1	2	3	×
1	3	9	4

 k. 

Th	H	T	O
		1	
	4	2	
	×	5	7
<hr/>			
2	9	4	
2	1	0	×
2	3	9	4

 l. 

Th	H	T	O
		0	
	6	1	
	×	3	9
<hr/>			
5	4	9	
1	8	3	×
2	3	7	9

### 2. Multiply the following :

Ans. a.  $34 \times 79 = 2686$       b.  $71 \times 71 = 5041$       c.  $91 \times 24 = 2184$   
 d.  $72 \times 21 = 1512$       e.  $86 \times 12 = 1032$       f.  $27 \times 45 = 1215$   
 g.  $55 \times 71 = 3905$       h.  $23 \times 48 = 1104$       i.  $66 \times 11 = 726$

## Exercise 6.7

### Find the product :

Ans. a. 

Th	H	T	O
		1	
	2	9	
	×	1	2
<hr/>			
4	3	8	
2	1	9	×
2	6	2	8

 b. 

Th	H	T	O
		3	
	1	7	6
	×	2	5
<hr/>			
8	8	0	
3	5	2	×
4	4	0	0

 c. 

Th	H	T	O
		2	
	1	5	2
	×	2	4
<hr/>			
6	0	8	
3	0	4	×
3	6	4	8

 d. 

Th	H	T	O
		3	1
	2	6	2
	×	1	6
<hr/>			
1	5	7	2
2	6	2	×
4	1	9	2

e. 

Th	H	T	O
		1	
	1	4	2
	×	1	2
<hr/>			
2	8	4	
1	4	2	×
1	7	0	4

 f. 

Th	H	T	O
		1	
	4	2	3
	×	1	4
<hr/>			
1	6	9	2
4	2	3	×
5	9	2	2

 g. 

Th	H	T	O
		1	
	1	7	9
	×	2	0
<hr/>			
0	0	0	
3	5	8	×
3	5	8	0

 h. 

Th	H	T	O
		3	1
	3	1	2
	×	3	0
<hr/>			
0	0	0	
9	3	6	×
9	3	6	0

## MCQs

**Tick (3) the correct answer :**

**Ans. 1. ii    2. iii    3. i    4. ii    5. iii**

### Exercise 6.8

$$\begin{array}{r} 1. \quad \begin{array}{r} 47 \\ \times 20 \\ \hline 00 \\ 94 \times \\ \hline 940 \end{array} \end{array}$$

Children send  
940 cards

$$\begin{array}{r} 2. \quad \begin{array}{r} 52 \\ \times 24 \\ \hline 208 \\ 104 \times \\ \hline 1248 \end{array} \end{array}$$

Packets have  
1428 balloons

$$\begin{array}{r} 3. \quad \begin{array}{r} 36 \\ \times 30 \\ \hline 00 \\ 108 \times \\ \hline 1080 \end{array} \end{array}$$

He buys 1080  
bananas

$$\begin{array}{r} 4. \quad \begin{array}{r} 12 \\ \times 35 \\ \hline 60 \\ 36 \times \\ \hline 420 \end{array} \end{array}$$

Boxes have 420 eggs.

$$\begin{array}{r} 5. \quad \begin{array}{r} 675 \\ \times 12 \\ \hline 1350 \\ 675 \times \\ \hline 8100 \end{array} \end{array}$$

8100 is the total cost of one dozen  
almirah

Towards The Lab

Do Yourself



## 7 Division

### Exercise 7.1

**For each of the following multiplication facts, write both the division facts :**

**Ans. a.  $7 \times 9 = 63$      $63 \div 7 = 9$**

**$63 \div 9 = 7$**

**b.  $6 \times 5 = 30$      $30 \div 6 = 5$**

**$30 \div 5 = 6$**

**c.  $3 \times 4 = 12$      $12 \div 3 = 4$**

**$12 \div 4 = 3$**

**d.  $8 \times 4 = 32$      $32 \div 8 = 4$**

**$32 \div 4 = 8$**

### Exercise 7.2

**1. Fill in the boxes :**

**Ans. a.  $51 \div 51 = 1$**

**b.  $44 \div 0 = \text{cannot be done}$**

**c.  $16 \div 0 = \text{cannot be done}$**

**d.  $0 \div 45 = 0$**

**e.  $37 \div 1 = 37$**

**f.  $0 \div 97 = 0$**

**g.  $45 \div 45 = 1$**

**h.  $0 \div 39 = 0$**

**i.  $66 \div 66 = 1$**



**2. Divide by long division method and verify the answer :**

Ans. a. 
$$\begin{array}{r} 4 \\ 6 \overline{)24} \\ \underline{-24} \\ 0 \end{array}$$

$D = Q \times D + R$   
 $= 6 \times 4 + 0$   
 $= 24$   
 $= \text{dividend}$

b. 
$$\begin{array}{r} 5 \\ 9 \overline{)45} \\ \underline{-45} \\ 0 \end{array}$$

$D = Q \times D + R$   
 $= 9 \times 5 + 0$   
 $= 45$   
 $= \text{dividend}$

c. 
$$\begin{array}{r} 3 \\ 7 \overline{)21} \\ \underline{-21} \\ 0 \end{array}$$

$D = Q \times D + R$   
 $= 7 \times 3 + 0$   
 $= 21$   
 $= \text{dividend}$

d. 
$$\begin{array}{r} 9 \\ 3 \overline{)27} \\ \underline{-27} \\ 0 \end{array}$$

$D = Q \times D + R$   
 $= 3 \times 9 + 0$   
 $= 27$   
 $= \text{dividend}$

e. 
$$\begin{array}{r} 4 \\ 8 \overline{)32} \\ \underline{-32} \\ 0 \end{array}$$

$D = Q \times D + R$   
 $= 8 \times 4 + 0$   
 $= 32$   
 $= \text{dividend}$

f. 
$$\begin{array}{r} 7 \\ 6 \overline{)42} \\ \underline{-42} \\ 0 \end{array}$$

$D = Q \times D + R$   
 $= 6 \times 7 + 0$   
 $= 42$   
 $= \text{dividend}$

g. 
$$\begin{array}{r} 9 \\ 9 \overline{)81} \\ \underline{-81} \\ 0 \end{array}$$

$D = Q \times D + R$   
 $= 9 \times 9 + 0$   
 $= 81$   
 $= \text{dividend}$

h. 
$$\begin{array}{r} 5 \\ 5 \overline{)25} \\ \underline{-25} \\ 0 \end{array}$$

$D = Q \times D + R$   
 $= 5 \times 5 + 0$   
 $= 25$   
 $= \text{dividend}$

MCOs

Tick (3) the correct answer :

Ans. 1. ii      2. i      3. ii      4. ii      5. iii

Exercise 7.3

**1. Divide and check your answer :**

Ans. a. 
$$\begin{array}{r} 28 \\ 2 \overline{)56} \\ \underline{-4} \\ 16 \\ \underline{-16} \\ 0 \end{array}$$

**Check :**  $2 \times 28 + 0$   
 $= 56 = \text{dividend}$

b. 
$$\begin{array}{r} 34 \\ 2 \overline{)68} \\ \underline{-6} \\ 8 \\ \underline{-8} \\ 0 \end{array}$$

**Check :**  $2 \times 34 + 0$   
 $= 68 = \text{dividend}$

c. 
$$\begin{array}{r} 13 \\ 3 \overline{)39} \\ \underline{-3} \\ 9 \\ \underline{-9} \\ 0 \end{array}$$

**Check :**  $3 \times 13 + 0$   
 $= 39 = \text{dividend}$

**2. Divide and fill in the boxes :**

Ans. a. 
$$\begin{array}{r} 25 \\ 3 \overline{)76} \\ \underline{-6} \\ 16 \\ \underline{-15} \\ 1 \end{array}$$

Quotient = 25  
 Remainder = 1

b. 
$$\begin{array}{r} 13 \\ 4 \overline{)55} \\ \underline{-4} \\ 15 \\ \underline{-12} \\ 3 \end{array}$$

Quotient = 13  
 Remainder = 3

c. 
$$\begin{array}{r} 31 \\ 3 \overline{)94} \\ \underline{-9} \\ 4 \\ \underline{-3} \\ 1 \end{array}$$

Quotient = 31  
 Remainder = 1

## Exercise 7.4

### 1. Divide the following and check your answer :

Ans. a. 
$$\begin{array}{r} 312 \\ 2 \overline{)624} \\ \underline{-6} \phantom{0} \\ 2 \phantom{0} \\ \underline{-2} \phantom{0} \\ 4 \\ \underline{-4} \\ 0 \end{array}$$

**Check :**  $2 \times 312 + 0$   
 $= 624 = d$

b. 
$$\begin{array}{r} 241 \\ 2 \overline{)482} \\ \underline{-4} \phantom{0} \\ 8 \\ \underline{-8} \\ 2 \\ \underline{-2} \\ 0 \end{array}$$

**Check :**  $2 \times 241 + 0$   
 $= 482 = d$

c. 
$$\begin{array}{r} 120 \\ 2 \overline{)240} \\ \underline{-2} \phantom{0} \\ 4 \\ \underline{-4} \\ 0 \\ \underline{-0} \\ 0 \end{array}$$

**Check :**  $2 \times 120 + 0$   
 $= 240 = d$

d. 
$$\begin{array}{r} 121 \\ 3 \overline{)363} \\ \underline{-3} \phantom{0} \\ 6 \\ \underline{-6} \\ 3 \\ \underline{-3} \\ 0 \end{array}$$

**Check :**  $3 \times 121 + 0$   
 $= 363 = d$

e. 
$$\begin{array}{r} 212 \\ 4 \overline{)848} \\ \underline{-8} \phantom{0} \\ 4 \\ \underline{-4} \\ 8 \\ \underline{-8} \\ 0 \end{array}$$

**Check :**  $4 \times 212 + 0$   
 $= 848 = d$

f. 
$$\begin{array}{r} 325 \\ 3 \overline{)966} \\ \underline{-9} \phantom{0} \\ 6 \\ \underline{-6} \\ 6 \\ \underline{-6} \\ 0 \end{array}$$

**Check :**  $3 \times 322 + 0$   
 $= 966 = d$

### 2. Divide and check your answer :

Ans. a. 
$$\begin{array}{r} 62 \\ 8 \overline{)497} \\ \underline{-48} \phantom{0} \\ 17 \\ \underline{-16} \\ 1 \end{array}$$

Quotient = 62  
 Remainder = 1

b. 
$$\begin{array}{r} 64 \\ 6 \overline{)386} \\ \underline{-36} \phantom{0} \\ 26 \\ \underline{-24} \\ 2 \end{array}$$

Quotient = 64  
 Remainder = 2

c. 
$$\begin{array}{r} 82 \\ 2 \overline{)179} \\ \underline{-16} \phantom{0} \\ 19 \\ \underline{-18} \\ 1 \end{array}$$

Quotient = 89  
 Remainder = 1

d. 
$$\begin{array}{r} 76 \\ 4 \overline{)306} \\ \underline{-28} \phantom{0} \\ 26 \\ \underline{-24} \\ 2 \end{array}$$

Quotient = 76  
 Remainder = 2

e. 
$$\begin{array}{r} 106 \\ 5 \overline{)532} \\ \underline{-5} \phantom{0} \\ 32 \\ \underline{-30} \\ 2 \end{array}$$

Quotient = 106  
 Remainder = 2

f. 
$$\begin{array}{r} 33 \\ 7 \overline{)237} \\ \underline{-21} \phantom{0} \\ 27 \\ \underline{-21} \\ 6 \end{array}$$

Quotient = 33  
 Remainder = 6

## MCQs

**Tick (3) the correct answer :**

**Ans. 1. ii      2. ii      3. iii      4. i**

### Exercise 7.5

**1. Divide the following :**

**Ans. a.** 
$$\begin{array}{r} 1057 \\ 2 \overline{)2114} \\ \underline{-2} \phantom{0} \\ 11 \phantom{0} \\ \underline{-10} \phantom{0} \\ 14 \phantom{0} \\ \underline{-14} \\ 0 \end{array}$$

**b.** 
$$\begin{array}{r} 341 \\ 5 \overline{)1705} \\ \underline{-15} \phantom{0} \\ 20 \phantom{0} \\ \underline{-20} \phantom{0} \\ 5 \phantom{0} \\ \underline{-5} \\ 0 \end{array}$$

**c.** 
$$\begin{array}{r} 232 \\ 8 \overline{)1856} \\ \underline{-16} \phantom{0} \\ 25 \phantom{0} \\ \underline{-24} \phantom{0} \\ 16 \phantom{0} \\ \underline{-16} \\ 0 \end{array}$$

**Check :**  $2 \times 1057 + 0 = 2114 = d$

**Check :**  $5 \times 341 + 0 = 1705 = d$

**Check :**  $8 \times 232 + 0 = 1856 = d$

**2. Find out the quotient and the remainder and check your answer :**

**Ans. a.** 
$$\begin{array}{r} 447 \\ 4 \overline{)1790} \\ \underline{-16} \phantom{0} \\ 19 \phantom{0} \\ \underline{-16} \phantom{0} \\ 30 \phantom{0} \\ \underline{-28} \\ 2 \end{array}$$

**b.** 
$$\begin{array}{r} 539 \\ 7 \overline{)3776} \\ \underline{-35} \phantom{0} \\ 27 \phantom{0} \\ \underline{-21} \phantom{0} \\ 66 \phantom{0} \\ \underline{-63} \\ 3 \end{array}$$

**c.** 
$$\begin{array}{r} 965 \\ 3 \overline{)2897} \\ \underline{-27} \phantom{0} \\ 19 \phantom{0} \\ \underline{-18} \phantom{0} \\ 17 \phantom{0} \\ \underline{-15} \\ 2 \end{array}$$

Quotient = 447  
Remainder = 2

Quotient = 539  
Remainder = 3

Quotient = 965  
Remainder = 2

### Exercise 7.6

**Write the quotient and the remainder of the following without actual division :**

- |                      |                       |                       |
|----------------------|-----------------------|-----------------------|
| Ans. a. $50 \div 10$ | Quotient = <b>5</b>   | Remainder = <b>0</b>  |
| b. $3210 \div 100$   | Quotient = <b>32</b>  | Remainder = <b>10</b> |
| c. $1205 \div 10$    | Quotient = <b>120</b> | Remainder = <b>5</b>  |
| d. $4219 \div 10$    | Quotient = <b>421</b> | Remainder = <b>9</b>  |
| e. $643 \div 100$    | Quotient = <b>6</b>   | Remainder = <b>43</b> |
| f. $1000 \div 10$    | Quotient = <b>100</b> | Remainder = <b>0</b>  |
| g. $375 \div 100$    | Quotient = <b>3</b>   | Remainder = <b>75</b> |
| h. $8009 \div 100$   | Quotient = <b>80</b>  | Remainder = <b>9</b>  |

### Exercise 7.7

$$\begin{array}{r} 64 \\ 8 \overline{)512} \\ \underline{-48} \phantom{0} \\ 32 \\ \underline{-32} \\ 0 \end{array}$$

$$\begin{array}{r} 251 \\ 8 \overline{)2008} \\ \underline{-16} \phantom{00} \\ 40 \\ \underline{-40} \phantom{0} \\ 8 \\ \underline{-8} \\ 0 \end{array}$$

$$\begin{array}{r} 62 \\ 10 \overline{)325} \\ \underline{-30} \phantom{0} \\ 25 \\ \underline{-20} \\ 5 \end{array}$$

64 packets

$$\begin{array}{r} 24 \\ 9 \overline{)216} \\ \underline{-18} \phantom{0} \\ 36 \\ \underline{-36} \\ 0 \end{array}$$

251 flowers

$$\begin{array}{r} 50 \\ 9 \overline{)450} \\ \underline{-45} \phantom{0} \\ 0 \\ \underline{-0} \\ 0 \end{array}$$

5 sticks will be left

$$\begin{array}{r} 90 \\ 6 \overline{)540} \\ \underline{-54} \phantom{0} \\ 0 \\ \underline{-0} \\ 0 \end{array}$$

7.

$$\begin{array}{r} 558 \\ 5 \overline{)2790} \\ \underline{-25} \phantom{00} \\ 29 \\ \underline{-25} \phantom{0} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

each group get 50 toffees.

90 books would be kept in one row.

558 kg is mass of each container.

MCOs

Tick (3) the correct answer :

Ans. 1. iii    2. ii    3. i    4. ii

Towards The Lab

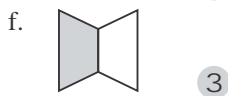
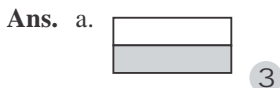
Do yourself



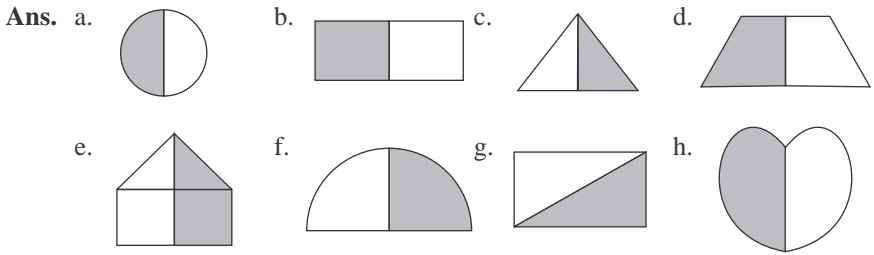
## 8 Fractions

### Exercise 8.1

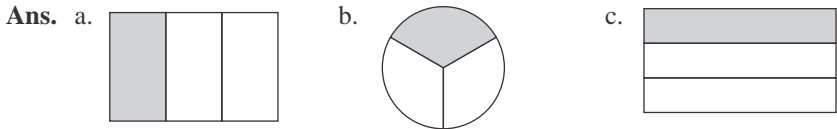
1. Tick (3) the shapes that show  $\frac{1}{2}$  part is shaded :



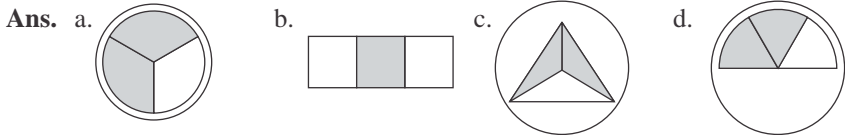
**2. Colour one-half in each of the following :**



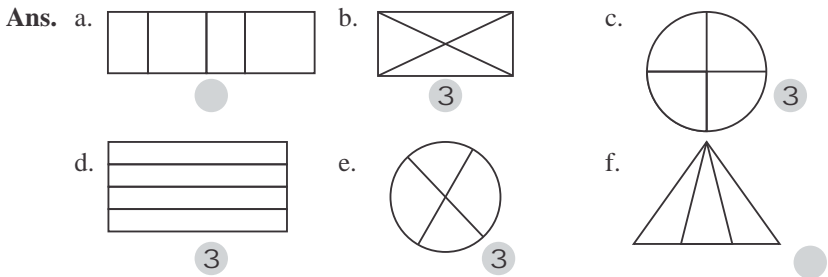
**3. Colour to show one-third in the following :**



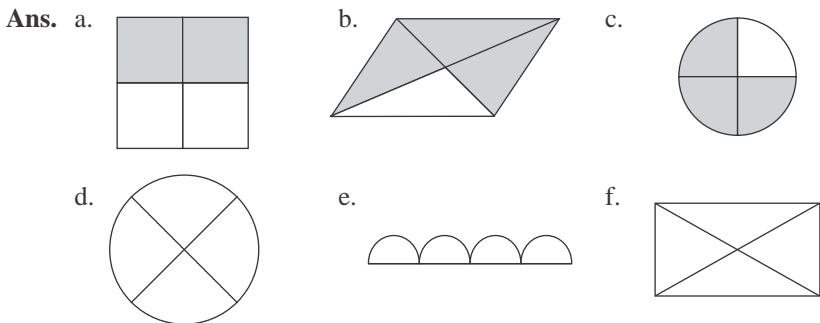
**4. Ring the shapes where  $\frac{2}{3}$  part is shaded :**



**5. Tick (✓) the figures that are divided into four equal parts :**



**6. Colour to show three-fourths in the following :**



### Exercise 8.2

**Write the fraction for the shaded part in each figure :**

- Ans. a.  $\frac{1}{4}$                       b.  $\frac{2}{4}$                       c.  $\frac{3}{4}$   
 d.  $\frac{1}{2}$                               e.  $\frac{5}{12}$                       f.  $\frac{3}{6}$

### Exercise 8.3

**Colour to show the fraction :**

Ans. a.		$\frac{3}{4}$
b.		$\frac{1}{4}$
c.		$\frac{1}{3}$
d.		$\frac{2}{3}$
e.		$\frac{1}{2}$

### Exercise 8.4

**Find :**

- Ans. a.  $18 \div 2 = 9$                       b.  $15 \div 5 = 3$                       c.  $20 \div 4 = 5$   
 d.  $21 \div 3 = 7$                               b.  $33 \div 3 = 11$                       c.  $34 \div 2 = 17$

### MCQs

**Tick (3) the correct answer :**

- Ans. 1. ii                      2. i                      3. iii                      4. iv

### Exercise 8.5

**1. Write in words :**

- Ans. a. two by five                      b. three by seven                      c. two by five  
 d. three by seven                      e. two by five                              f. three by seven

**2. Write the fractions for the following :**

- Ans. a.  $\frac{1}{5}$                       b.  $\frac{8}{9}$                       c.  $\frac{7}{9}$                       d.  $\frac{4}{7}$                       e.  $\frac{1}{3}$                       f.  $\frac{5}{6}$

**3. Circle the fractions in which the numerator is 5 :**

- Ans.  $\left(\frac{5}{7}\right)$ ,  $\frac{7}{9}$ ,  $\frac{8}{9}$ ,  $\left(\frac{5}{6}\right)$ ,  $\frac{4}{5}$ ,  $\frac{4}{5}$ ,  $\frac{1}{3}$ ,  $\left(\frac{5}{8}\right)$

**4. Circle the fractions in which denominator is 9 :**

- Ans.  $\left(\frac{2}{9}\right)$ ,  $\left(\frac{5}{9}\right)$ ,  $\frac{1}{3}$ ,  $\frac{4}{7}$ ,  $\left(\frac{4}{9}\right)$ ,  $\left(\frac{7}{9}\right)$ ,  $\frac{5}{6}$

**5. Write the numerator and denominator of each of the following fractions :**

- Ans. a. numerator = 3                      denominator = 8  
 b. numerator = 6                              denominator = 17

- c. numerator = 2                      denominator = 15  
 d. numerator = 6                      denominator = 19

6. Write the fraction in which :

- Ans. a.  $\frac{2}{7}$                       b.  $\frac{8}{7}$                       c.  $\frac{3}{8}$                       d.  $\frac{7}{9}$

### Exercise 8.6

1. Put '>' or '<' sign in between each pair of fractions :

- Ans. a.  $\frac{2}{6} < \frac{5}{6}$                       b.  $\frac{7}{9} > \frac{5}{9}$                       c.  $\frac{3}{5} < \frac{5}{5}$

- d.  $\frac{5}{11} > \frac{5}{13}$                       e.  $\frac{9}{10} > \frac{4}{10}$                       f.  $\frac{2}{9} < \frac{8}{9}$

2. Circle the greatest fraction in each group :

- Ans. a.  $\frac{1}{7}, \frac{1}{9}, \left(\frac{1}{3}\right)$                       b.  $\left(\frac{4}{5}\right), \frac{3}{5}, \frac{2}{5}$                       c.  $\frac{7}{13}, \left(\frac{10}{13}\right), \frac{9}{13}$   
 d.  $\frac{10}{23}, \frac{10}{21}, \left(\frac{10}{17}\right)$                       e.  $\left(\frac{5}{7}\right), \frac{5}{9}, \frac{5}{11}$                       f.  $\frac{7}{27}, \frac{11}{27}, \left(\frac{19}{27}\right)$

3. Circle the smallest fraction in each group :

- Ans. a.  $\frac{2}{3}, \frac{2}{5}, \left(\frac{2}{7}\right)$                       b.  $\frac{3}{11}, \frac{3}{13}, \left(\frac{3}{14}\right)$                       c.  $\left(\frac{2}{7}\right), \frac{5}{7}, \frac{6}{7}$   
 d.  $\left(\frac{5}{13}\right), \frac{9}{13}, \frac{10}{13}$                       e.  $\left(\frac{6}{17}\right), \frac{7}{17}, \frac{8}{17}$                       f.  $\frac{19}{20}, \frac{19}{21}, \left(\frac{19}{22}\right)$

4. Arrange these fractions in ascending order :

- Ans. a.  $\frac{1}{5}, \frac{2}{5}, \frac{3}{5}, \frac{4}{5}, \frac{5}{5}$                       b.  $\frac{1}{9}, \frac{1}{7}, \frac{1}{6}, \frac{1}{5}, \frac{1}{7}$                       c.  $\frac{2}{7}, \frac{2}{6}, \frac{2}{5}, \frac{2}{4}, \frac{2}{3}$

5. Arrange these fractions in descending order :

- Ans. a.  $\frac{7}{4}, \frac{6}{4}, \frac{4}{4}, \frac{3}{4}, \frac{1}{4}$                       b.  $\frac{6}{7}, \frac{6}{9}, \frac{6}{10}, \frac{6}{11}, \frac{6}{13}$                       c.  $\frac{7}{11}, \frac{7}{15}, \frac{7}{17}, \frac{7}{19}, \frac{7}{32}$

### MCQs

Tick (3) the correct answer :

- Ans. 1. iii                      2. ii                      3. i



## 9 Geometry

### Exercise 9.1

1. Fill each box in a suitable way :

- Ans. a. Rectangles                      b. Circle

2. How many squares do you see in these figures?

- Ans. a. 5                      b. 5                      c. 6

3. How many triangles do you see in these figures?

- Ans. a. 4                      b. 6                      c. 12

### Exercise 9.2

Look at the following objects and write :

Ans. a.



b.



d.



e.



f.



### Exercise 9.3

Write 'T' for true and 'F' for false :

Ans. a.

T

b. F

c. T

d. T

e. T

f. F

g. F

### MCQs

Tick (3) the correct answer :

Ans. 1. ii

2. iii

3. iii

4. iv

5. iii

### Exercise 9.4

Find the perimeter of each figure :

Ans. a.  $3 + 2 + 3 + 3 + 2 + 3$

$$= 16 \text{ cm}$$

b.  $4 + 4 + 4 + 4 + 4$

$$= 16 \text{ cm}$$

c.  $3 + 3 + 3 + 3 + 3$

$$= 15 \text{ cm}$$

d.  $2 + 4 + 2 + 2 + 4 + 2$

$$= 16 \text{ cm}$$

e.  $3 + 6 + 3 + 6$

$$= 18 \text{ cm}$$

f.  $5 + 8 + 5 + 8$

$$= 26 \text{ cm}$$

### Exercise 9.5

1. Find out the perimeters of the following rectangles whose sides are given below :

Ans. a.  $2 \times (4 + 2)$

$$= 2 \times 6 = 12 \text{ cm}$$

b.  $2 \times (7 + 5)$

$$= 2 \times 12 = 24 \text{ cm}$$

2. Find out the perimeter of the squares whose sides are given below :

Ans. a. 15 cm

$$4 \times 15 = 60 \text{ cm}$$

b. 16 cm

$$4 \times 16 = 64 \text{ cm}$$

c. 3 cm

$$4 \times 3 = 12 \text{ cm}$$

d. 12.6 cm

$$4 \times 12.6 = 50.4 \text{ cm}$$

3. Find out the perimeter of the triangle ABC when :

Ans. a. AB = 3 cm, BC = 7 cm, CA = 5 cm

$$= 3 + 7 + 5 = 15 \text{ cm}$$

b. AB = 6 cm, BC = 8 cm, CA = 10 cm

$$= 6 + 8 + 10 = 24 \text{ cm}$$



4. A rectangle has a perimeter of 34 cm. If its length is 9 cm, what is its breadth?

Ans.  $P = 2 \times (L + B)$   
 $34 = 2 \times (9 + b)$   
 $18 + 2b = 34$   
 $2b = 34 - 18$   
 $2b = 16 \text{ cm}$

5. A square has a perimeter of 36 cm. What is the length of each side?

Ans.  $P = 4 \times \text{side}$   
 $36 = 4 \times \text{side}$   
 $\text{side} = 36 \div 4$   
 $\text{side} = 9 \text{ cm}$

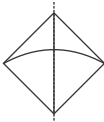
6. Find the perimeter of each triangle :

Ans. a.  $3 + 3 + 3 = 9 \text{ cm}$       b.  $2 + 4 + 3 = 9 \text{ cm}$       c.  $5 + 3 + 4 = 12 \text{ cm}$

### Exercise 9.6

Given below are some symmetrical figures. Draw a line of symmetry in each figure :

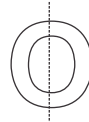
Ans. a.



b.



c.



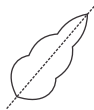
d.



e.



f.



MCOs

Tick (3) the correct answer :

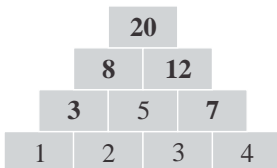
Ans. 1. ii      2. iii

## 10 Patterns

### Exercise 10

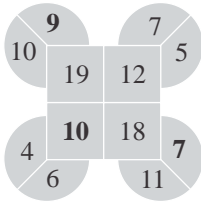
1. Observe the following numbers and find their pattern. Then fill in the missing numbers.

Ans.

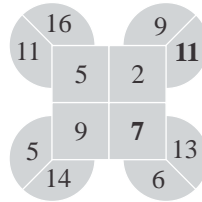


2. Find the pattern and fill in the boxes :

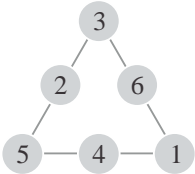
Ans. a.



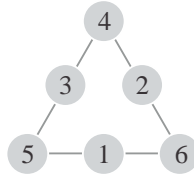
b.



3. a.

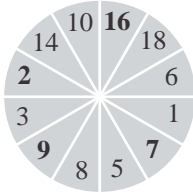


b.

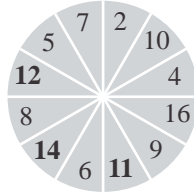


4. Find the patterns of numbers in each of the following, then fill in the missing places :

Ans. a.

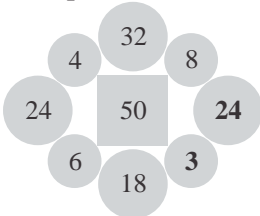


b.

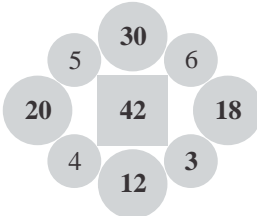


5. Find the pattern and fill in the circles and the boxes :

Ans. a.



b.



6. Write the missing numbers in the boxes :

Ans. a.

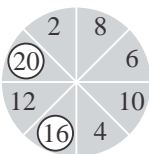
10  11  12  13  15  16  17

b. 5  6  8  11  15  20  26

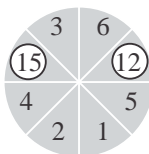
c. 8  16  24  32  40  48  56

d. 7  12  22  37  57  82  112

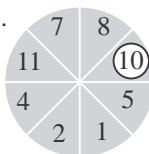
7. Study the pattern and fill in the missing terms. The first one is done for you :



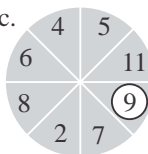
a.



b.

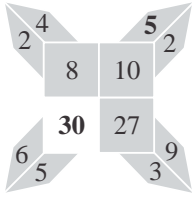


c.

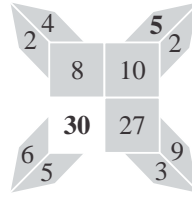


8. Study the pattern and fill in the missing numbers. The first one is done for you :

Ans. a.



b.



MCOs

Tick (3) the correct answer :

Ans. 1. i      2.      3. ii      4. ii      5. ii

Towards The Lab

Do yourself



## 11 Measurement

### Exercise 11.1

1. Which of the following lengths are supposed to be true?

Ans. a. F      b. F      c. T      d. F

2. Which of these will be in, centimetres and which will be in metres?

Ans. a. cm      b. m      c. cm      d. cm

3. Measure and write the lengths of the given lines :

Ans. a. 4.8 cm      b. 6.9 cm      c. 5.5 cm  
d. 1.5 cm      e. 13.7 cm

### Exercise 11.2

1. Convert the following into cm :

Ans. a. 8 m 3 cm (8 × 100) + 3 = 803 cm	b. 19 m 43 cm (19 × 100) + 43 = 1943 cm	c. 65 m 80 cm (65 × 100) + 80 = 6580 cm
d. 8 m 53 cm (8 × 100) + 53 = 855 cm	e. 10 m 15 cm (10 × 100) + 15 = 1015 cm	f. 15 m 18 cm (15 × 100) + 18 = 1518 cm

2. Convert the following into m :

Ans. a. 5 km 100 m (5 × 1000) + 100 = 5100 m	b. 1 km 101 m (1 × 1000) + 101 = 1101 m	c. 4 km 802 m (4 × 1000) + 802 = 4802 m
d. 9 km 520 m (9 × 1000) + 520 = 9520 m	e. 8 km 46 m (8 × 1000) + 46 = 8046 m	f. 6 km 353 m (6 × 1000) + 353 = 6353 m

### Exercise 11.3

**1. How many kilometres are there in?**

Ans. [ $\backslash$  1000 m = 1 km]

- |  |   |   |
|--|---|---|
| a. 7000 m<br>= $7 \times 1000$ m<br>= 7 km | b. 40000 m<br>= $40 \times 1000$ m<br>= 40 km | c. 90000 m<br>= $90 \times 1000$ m<br>= 90 km |
|--|---|---|

**2. How many metres are there in?**

Ans. [ $\backslash$  100 cm = 1 m]

- |   |   |  |
|---|---|--|
| a. 600 cm<br>= $6 \times 100$ cm<br>= 6 m | b. 400 cm<br>= $4 \times 100$ cm<br>= 4 m | c. 1000 cm<br>= $10 \times 100$ cm<br>= 10 m |
|---|---|--|

### MCQs

**Tick (3) the correct answer :**

- Ans. 1. ii    2. ii    3. iv    4. ii    5. iii

### Exercise 11.4

1. 

m	cm
2 6	2 1
+ 1 2	8 5
3 9	0 6

2. 

m	cm
1 3	5 7
+ 1 5	5 2
2 9	0 9

3. 

m	cm
6 2	1 5
+ 1 2	7 5
7 4	9 0

4. 

m	cm
3 7	9 5
+ 2 6	6 9
6 4	6 4

5. 

m	cm
9 6	6 5
+ 5 5	7 4
5 2	3 9

6. 

m	cm
2 5	6 5
+ 5 9	7 5
8 5	4 0

Total length of cloth is 64 m 64 cm.

He runs 152.39 m.

Total length of cords is 85 m 40 cm.

### Exercise 11.5

1. 

km	m
1 3	3 7 5
- 1 2	1 6 2
0 1	2 1 3

2. 

km	m
1 4	<sup>2</sup> <sup>15</sup> <del>4</del> <del>6</del> <del>2</del>
- 1 2	1 7 5
0 2	1 8 7

3. 

km	m
1 3	<sup>15</sup> <del>4</del> <del>6</del> <del>2</del>
- 1 1	1 7 5
2	3 8 7

4. 

<sup>14</sup>
<sup>1</sup> <del>4</del> <sup>10</sup>
<del>2</del> <del>5</del> <del>0</del>
- 1 7 5
0 7 5 m

5. 

m	cm
1	<sup>6</sup> <sup>15</sup>
- 1	<del>7</del> <del>5</del>
	2 8

Wire left on the roll = 75 m

Monu is 28 cm taller than his brother.

$$\begin{array}{r}
 \text{m} \quad \text{cm} \\
 36 \quad 86 \\
 -15 \quad 85 \\
 \hline
 21 \quad 01
 \end{array}$$






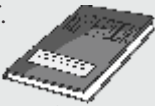


Left cloth is 21 m 01 cm

$$\begin{array}{r}
 \text{m} \quad \text{cm} \\
 16 \quad 210 \\
 -5 \quad 200 \\
 \hline
 11 \quad 18
 \end{array}$$

Left thread with her is  
11 m 18 cm

### Exercise 11.6

Tick (3) the unit you use to weigh the following :

Ans. a.  kg/g 3	b.  kg/g 3	c.  3 kg/g	d.  kg/g 3
e.  kg/g 3	f.  kg/g 3	g.  3 kg/g	h.  3 kg/g

### Exercise 11.7

1. Convert the following into 'g' :

- Ans. a. 70 kg  
=  $70 \times 1000$   
= 70000
- b. 44 kg  
=  $44 \times 1000$   
= 44000
- c. 80 kg  
=  $80 \times 1000$   
= 80000
- d. 200 kg  
=  $200 \times 1000$   
= 200000

2. Convert the following into 'g' :

- Ans. a. 3 kg 725 g  
=  $(3 \times 1000) + 725$   
= 3725
- b. 14 kg 92 g  
=  $(14 \times 1000) + 92$   
= 14092
- c. 4 kg 312 g  
=  $(4 \times 1000) + 312$   
= 4312
- d. 70 kg 76 g  
=  $(70 \times 1000) + 76$   
= 70076

3. Convert the following into 'kg' and 'g' :

- Ans. a. 56439 g
- $$\begin{array}{r}
 56 \\
 1000 \overline{)56439} \\
 \underline{-5000} \phantom{0} \\
 6439 \\
 \underline{-6000} \\
 439
 \end{array}$$
- = 56 kg 439 g
- b. 7245 g
- $$\begin{array}{r}
 7 \\
 1000 \overline{)7245} \\
 \underline{-7000} \\
 245
 \end{array}$$
- = 7 kg 245 g

$$\begin{array}{r} \text{c. } 2718 \text{ g} \\ \hline 1000 \overline{) 2718} \\ - 2000 \\ \hline 718 \end{array}$$

= 2 kg 718 g

$$\begin{array}{r} \text{d. } 5694 \text{ g} \\ \hline 1000 \overline{) 5694} \\ - 5000 \\ \hline 694 \end{array}$$

= 5 kg 694 g

### Exercise 11.8

**Add the following :**

**Ans. 1.**

kg	g
7	110
+ 8	630
15	740

**2.**

kg	g
7	125
+ 5	620
12	745

**3.**

kg	g
7	630
+ 8	130
15	760

### Exercise 11.9

**Subtract the following :**

**Ans. 1.**

kg	g
76	412
- 70	100
6	312

**2.**

kg	g
47	397
- 42	162
5	235

**3.**

kg	g
55	321
- 50	121
5	200

**4.**

kg	g
1	55
-	55
1	410

**5.**

kg	g
1	350
- 1	200
2	550

**6.**

kg	g
38	700
- 36	700
2	000

Now, total weight of box is 1 kg 410 g.

Total weight of tin with ghee is 2 kg 550 g.

Kavi's weight is less by 2 kg than Ravi.

### MCOs

**Tick (3) the correct answer :**

**Ans. 1.** iii    **2.** iii    **3.** ii    **4.** iii    **5.** ii

### Exercise 11.10

**1. Convert the following into ml :**

**Ans. a.** 5 l 276 ml  
 = (5 × 1000) + 276  
 = 5276 ml

**b.** 6 l 250 ml  
 = (6 × 1000) + 250  
 = 6250 ml

**2. Convert the following into l and ml :**

**Ans. a.** 7649 ml  
 = (7 × 1000) + 649  
 = 7 l 649 ml

**b.** 1245 ml  
 = (1 × 1000) + 245  
 = 1 l 245 ml

**c.** 4567 ml  
 = (4 × 1000) + 567  
 = 4 l 567 ml

**d.** 9320 ml  
 = (9 × 1000) + 320  
 = 9 l 320 ml

### Exercise 11.11

1. 

<i>l</i>	<i>ml</i>
1 2	1 5 0
+ 1 3	2 1 0
2 5	3 6 0

2. 

<i>l</i>	<i>ml</i>
1 4	7 4 0
+ 1 2	1 3 0
2 6	8 7 0

3. 

<i>l</i>	<i>ml</i>
3	7 2 0
+ 1 3	1 2 0
1 6	8 4 0

4. 

<i>l</i>	<i>ml</i>
3 2 5	5 0 0
+ 4 7 5	8 3 0
8 0 1	3 3 0

5. 

<i>l</i>	<i>ml</i>
2	5 0 0
+ 1	7 0 0
4	2 0 0

Total amount of water is  
801 l 330 ml

Total milk he purchases 4 l 200 ml

### MCOs

Tick (3) the correct answer :

Ans. 1. iii    2. iii    3. ii    4. ii

### Exercise 11.12

1. Find out the difference of the following after conversion :

Ans. a. 21 l 631 ml and 9 l 5 ml  
21 l 631 ml = 21631 ml  
9 l 5 ml = 9005 ml

①	①①	②	①①
<del>2</del>	<del>1</del>	6	<del>3</del>
-	9	0	5
1	2	6	2

= 12 l 626 ml

b. 13 l 231 ml and 13 l 5 ml  
13 l 231 ml = 13231 ml  
13 l 5 ml = 13005 ml

①	①①
1	3
-	1
2	2
3	6

= 226 ml

c. 35 l 50 ml and 34 l 14 ml  
35 l 50 ml = 35050 ml  
34 l 14 ml = 34014 ml

④	①①
3	5
-	3
5	0
0	3
-	4
1	0
3	6

= 1036 ml

d. 112 l 37 ml and 17 l 205 ml  
112 l 37 ml = 112037 ml  
17 l 205 ml = 17205 ml

①	①①	①①	①①
<del>1</del>	<del>1</del>	2	3
-	1	7	2
9	4	8	3

= 94832 ml

2. Subtract :

Ans. a. 

<i>l</i>	<i>ml</i>
1 5	7 3 0
- 1 3	1 2 0
3	6 1 0

b. 

<i>l</i>	<i>ml</i>
2 3	5 3 7
- 1 2	1 2 5
1	4 1 2

c. 

<i>l</i>	<i>ml</i>
2 5	6 2 5
- 2 1	1 0 3
4	5 2 2

Ans. 3.

l	ml
<del>2</del> 8	<del>17</del> 70
<del>5</del> 8	<del>5</del> 00
- 2 9	7 3 0
8	7 7 0

Left petrol in the car tank is 8 l 770 ml

4. Total oil he sold

l	ml
8	2 5 0
1 5	3 0 0
- 1 2	7 5 0
3 6	3 0 0

Oil left with him

l	ml
<del>8</del> 0	0 0 0
- 3 6	3 0 0
5 3	7 0 0

5. He sell 172800 ml in the evening than morning.

l	ml
<del>7</del> 8	<del>10</del> 0 0 0
- 8 0	2 0 0
1 7	8 0 0

## 12 Time

### Exercise 12.1

1. Write the time shown on each clock face :

Ans. a.



11:38

b.



8:21

c.



11:40

d.



9:06

2. Draw the hour-hand and the minute-hand to show the given time :

Ans. a.



3:27

b.



9:16

c.



11:37

d.



7:03

3. Fill in the blanks :

Ans.

- The hour-hand takes **7** hours to move from 2 to 9.
- The minute-hand takes **10** minutes to move from 3 to 5.
- The hour-hand takes **4** hours to move from 2 to 6.
- The minute-hand takes **20** minutes to move from 1 to 5.

4. 60 minutes

5. 12 hours



## Exercise 12.2

### 1. Fill in the boxes with am or pm :

- Ans.** a. pm                                      b. am                                      c. am  
d. am    e. pm

### 2. Write these time using noon or midnight :

- Ans.** a. 8:30 after midnight    b. 7:05 after noon                      c. 3:40 after noon

### 3. What time will it be after 5 hours?

- Ans.** a. 9:35 am                                  b. 4:00 am                                  c. 11:50 am

## MCOs

### Tick (3) the correct answer :

- Ans.** 1. ii                      2. iv                      3. ii                      4. ii

## Exercise 12.3

### 1. Change into seconds :

- Ans.** a. 8 minutes 30 seconds                      b. 37 minutes 27 seconds  
 $= (8 \times 60) + 30$                                        $= (37 \times 60) + 27$   
 $= 510$  seconds                                       $= 2247$  seconds.

### 2. Change into minutes:

- Ans.** a. 2 hours                                      b. 7 hours 27 minutes  
 $= 2 \times 60$      $= (7 \times 60) + 27$   
 $= 120$  minutes                                       $= 447$  minutes

## Calendar

Do yourself.

## Activity

Do yourself.

## Exercise 12.4

- Days left out in January =  $31 - 14 = 17$   
Days in February = 16  
Total number of days =  $17 + 16 = 33$  days
- Days left out in February =  $28 - 17 = 11$   
Days in March =  $27 - 11 = 16$   
So, the date of her last leave = 16th March
- Days left out in January =  $31 - 7 = 24$   
Days in February = 28  
Days in March = 9  
Total number of days =  $24 + 28 + 9 = 61$  days
- Days left out in February =  $28 - 5 = 23$   
Days left out in March = 31

Days left out in April = 30

Days left out in May = 30

Days left out in June = 30

Days left out in July = 17

Total number of days =  $23 + 31 + 30 + 31 + 30 + 17 = 162$  days

5. Days left out in May =  $31 - 1 = 30$

Days left out in June = 3

Total days she stayed =  $30 + 3 = 33$  days

6. Days in March =  $31 - 7 = 24$

Days in April =  $40 - 24 = 16$

Nirmal left office on 16th April.

### MCQs

**Tick (3) the correct answer :**

Ans. 1. ii    2. ii    3. iii    4. ii

Towards The Lab

Do yourself

## 13 Money

### Exercise 13.1

1. Express the following amounts in short form :

Ans. a. ₹ 0.75    b. ₹ 327.25    c. ₹ 4.75    d. ₹ 327.05

2. Express the following amounts in words :

Ans. a. Eight paise  
b. Seventy five paise  
c. Rupees three and paise seventeen  
d. Rupees twenty two and paise forty

3. Given below are some amount in words. Express them in long form :

Ans. a. 65 rupees and 30 paise    b. 80 rupees and 25 paise  
c. 105 rupees and 75 paise    d. 2 rupees and 25 paise  
e. 77 rupees and 75 paise

### Exercise 13.2

**Convert the following Rs (₹) into p :**

Ans. a. 12300 paise    b. 6319 paise    c. 16406 paise    d. 1540 paise  
e. 12506 paise    f. 95 paise    g. 5530 paise    h. 21035 paise

### MCQs

**Tick (3) the correct answer :**

Ans. 1. iv    2. i    3. iii    4. i

### Exercise 13.3

Convert the following p into ` :

- Ans. a. ` 7.01      b. ` 1.75      c. ` 6.06      d. ` 62.40  
 e. ` 0.07      f. ` 0.02      g. ` 0.15      h. ` 0.08

### Exercise 13.4

1. Add after conversion:

- Ans. a. ` 45.27 and ` 36.25

$$\begin{array}{r} 45.27 \text{ P} \\ + 36.25 \text{ P} \\ \hline 81.52 \text{ P} \end{array}$$

= ` 81.52

- c. ` 32.75 and ` 96.48

$$\begin{array}{r} 32.75 \text{ P} \\ + 96.48 \text{ P} \\ \hline 129.23 \text{ P} \end{array}$$

= ` 129.23

- b. ` 34.97 and ` 28.79

$$\begin{array}{r} 34.97 \text{ P} \\ + 28.79 \text{ P} \\ \hline 63.76 \text{ P} \end{array}$$

= ` 63.76

- d. ` 4.97 and ` 83.36

$$\begin{array}{r} 4.97 \text{ P} \\ + 83.36 \text{ P} \\ \hline 88.33 \text{ P} \end{array}$$

= ` 88.33

2. Add separately :

- Ans. a. ` 11.12 and ` 22.34

$$\begin{array}{r} 11.12 \text{ P} \\ + 22.34 \text{ P} \\ \hline 33.46 \text{ P} \end{array}$$

= ` 33.46

- c. ` 15.79 and ` 46.06

$$\begin{array}{r} 15.79 \text{ P} \\ + 46.06 \text{ P} \\ \hline 61.85 \text{ P} \end{array}$$

= ` 61.85

- b. ` 29.35 and ` 34.50

$$\begin{array}{r} 29.35 \text{ P} \\ + 34.50 \text{ P} \\ \hline 63.85 \text{ P} \end{array}$$

= ` 63.85

- d. ` 4.57 and ` 63.36

$$\begin{array}{r} 4.57 \text{ P} \\ + 63.36 \text{ P} \\ \hline 67.93 \text{ P} \end{array}$$

= ` 67.93

3. Add :

- Ans. a. ` 134.56

$$\begin{array}{r} + ` 127.49 \\ \hline ` 262.05 \end{array}$$

- b. ` 721.65

$$\begin{array}{r} + ` 434.73 \\ \hline ` 1156.38 \end{array}$$

- c. ` 159.05

$$\begin{array}{r} + ` 124.36 \\ \hline ` 283.41 \end{array}$$

- d. ` 225.00

$$\begin{array}{r} + ` 126.15 \\ \hline ` 251.15 \end{array}$$

- e. ` 478.63

$$\begin{array}{r} + ` 259.07 \\ \hline ` 737.70 \end{array}$$

- f. ` 415.69

$$\begin{array}{r} + ` 305.45 \\ \hline ` 721.14 \end{array}$$

$$\begin{array}{r}
 \text{₹ } 120 \\
 \text{₹ } 130 \\
 + \text{₹ } 380 \\
 \hline
 \text{₹ } 630
 \end{array}$$

Total profit he got in 3 days = ₹ 630

$$\begin{array}{r}
 \text{₹ } 175.70 \\
 + \text{₹ } 154.80 \\
 \hline
 \text{₹ } 330.50
 \end{array}$$

### Exercise 13.5

#### 1. Convert and find the difference :

Ans. a. ₹ 78.20 and ₹ 19.45

$$\begin{array}{r}
 7820 \text{ p} \\
 - 1945 \text{ p} \\
 \hline
 5875 \text{ p}
 \end{array}$$

= ₹ 58.75

c. ₹ 72.60 and ₹ 2.57

$$\begin{array}{r}
 7260 \text{ p} \\
 - 257 \text{ p} \\
 \hline
 7003 \text{ p}
 \end{array}$$

= ₹ 70.03

b. ₹ 94.72 and ₹ 67.85

$$\begin{array}{r}
 \textcircled{8} \textcircled{13} \textcircled{16} \\
 9472 \text{ p} \\
 - 6785 \text{ p} \\
 \hline
 2687 \text{ p}
 \end{array}$$

= ₹ 26.27

d. ₹ 47.84 and ₹ 18.97

$$\begin{array}{r}
 \textcircled{3} \textcircled{16} \textcircled{17} \textcircled{14} \\
 4784 \text{ p} \\
 - 1897 \text{ p} \\
 \hline
 2887 \text{ p}
 \end{array}$$

= ₹ 28.87

#### 2. Find the difference separately :

Ans. a. ₹ 63.78 and ₹ 25.80

₹ 63 + 78 p

₹ 25 + 80 p

differ in p = (100 + 78) - 80  
= 178 - 80 = 98 p

differ in ₹ = (63 + 1) - 25  
= 64 - 25 = ₹ 37

c. ₹ 15.03 and ₹ 21.05

₹ 21 + 0.05 p

₹ 15 + 0.03 p

differ in p = 0.05 - 0.03  
= 0.02 p

differ in ₹ = 21 - 15  
= ₹ 6 = ₹ 6.02

b. ₹ 34.97 and ₹ 28.79

differ in p = 97 - 79

= 18 p

differ in ₹ = (34 - 28) = ₹ 6  
= ₹ 6.18

d. ₹ 41.51 and ₹ 63.36

₹ 63 + 36 p

₹ 41 + 51 p

differ in p = (100 + 36) - 51  
= 136 - 51 = 85 p

differ in ₹ = (63 - 1) - 41  
= ₹ 21 = ₹ 21.85

#### 3. Subtract :

Ans. a. 
$$\begin{array}{r}
 \textcircled{4} \textcircled{9} \textcircled{9} \textcircled{10} \\
 \text{₹ } 50.00 \\
 - \text{₹ } 26.45 \\
 \hline
 \text{₹ } 23.55
 \end{array}$$

b. 
$$\begin{array}{r}
 \textcircled{18} \textcircled{9} \textcircled{15} \\
 \text{₹ } 59.05 \\
 - \text{₹ } 24.36 \\
 \hline
 \text{₹ } 34.69
 \end{array}$$

c. 
$$\begin{array}{r}
 \text{₹ } 24.30 \\
 - \text{₹ } 22.10 \\
 \hline
 \text{₹ } 2.20
 \end{array}$$

$$\begin{array}{r} \textcircled{8} \textcircled{12} \\ \phantom{0} 29.25 \\ - \phantom{0} 17.70 \\ \hline \phantom{0} 11.55 \end{array}$$

$$\begin{array}{r} \phantom{0} 105.97 \\ - \phantom{0} 94.36 \\ \hline \phantom{0} 11.61 \end{array}$$

$$\begin{array}{r} \textcircled{2} \textcircled{11} \\ \phantom{0} 315.36 \\ - \phantom{0} 75.05 \\ \hline \phantom{0} 240.31 \end{array}$$

4. Total money any gave

$$\begin{array}{r} 49.80 \\ + 34.00 \\ \hline 83.80 \end{array}$$

$$\begin{array}{r} \textcircled{9} \textcircled{9} \textcircled{10} \\ 100.00 \\ + 83.80 \\ \hline 16.20 \end{array}$$

Shopkeeper will return ` 16.20

$$\begin{array}{r} \textcircled{7} \textcircled{9} \textcircled{10} \\ \text{Income exp} = \\ 9438.00 \\ - 8436.45 \\ \hline 1001.55 \end{array}$$

Total savings in May = 1001.55

### Exercise 13.6

Multiply the following :

Ans. a. 
$$\begin{array}{r} \phantom{0} 12 \phantom{0} 75 \\ \phantom{0} \phantom{0} \times 3 \\ \hline \phantom{0} 38 \phantom{0} 25 \end{array}$$

b. 
$$\begin{array}{r} \phantom{0} 14 \phantom{0} 52 \\ \phantom{0} \phantom{0} \times 2 \\ \hline \phantom{0} 29 \phantom{0} 04 \end{array}$$

c. 
$$\begin{array}{r} \phantom{0} 14 \phantom{0} 80 \\ \phantom{0} \phantom{0} \times 8 \\ \hline \phantom{0} 118 \phantom{0} 40 \end{array}$$

d. 
$$\begin{array}{r} \phantom{0} 12 \phantom{0} 73 \\ \phantom{0} \phantom{0} \times 6 \\ \hline \phantom{0} 76 \phantom{0} 38 \end{array}$$

e. 
$$\begin{array}{r} \phantom{0} 10 \phantom{0} 30 \\ \phantom{0} \phantom{0} \times 9 \\ \hline \phantom{0} 92 \phantom{0} 70 \end{array}$$

f. 
$$\begin{array}{r} \phantom{0} 52 \phantom{0} 75 \\ \phantom{0} \phantom{0} \times 2 \\ \hline \phantom{0} 105 \phantom{0} 50 \end{array}$$

g. 
$$\begin{array}{r} \phantom{0} 14 \phantom{0} 75 \\ \phantom{0} \phantom{0} \times 6 \\ \hline \phantom{0} 88 \phantom{0} 50 \end{array}$$

h. 
$$\begin{array}{r} \phantom{0} 22 \phantom{0} 30 \\ \phantom{0} \phantom{0} \times 6 \\ \hline \phantom{0} 133 \phantom{0} 80 \end{array}$$

i. 
$$\begin{array}{r} \phantom{0} 30 \phantom{0} 32 \\ \phantom{0} \phantom{0} \times 6 \\ \hline \phantom{0} 181 \phantom{0} 92 \end{array}$$

j. 
$$\begin{array}{r} \phantom{0} 25 \phantom{0} 25 \\ \phantom{0} \phantom{0} \times 5 \\ \hline \phantom{0} 126 \phantom{0} 25 \end{array}$$

k. 
$$\begin{array}{r} \phantom{0} 19 \phantom{0} 93 \\ \phantom{0} \phantom{0} \times 4 \\ \hline \phantom{0} 79 \phantom{0} 72 \end{array}$$

l. 
$$\begin{array}{r} \phantom{0} 57 \phantom{0} 37 \\ \phantom{0} \phantom{0} \times 3 \\ \hline \phantom{0} 172 \phantom{0} 11 \end{array}$$

### Exercise 13.7

**1. Divide the following :**

Ans. a.  $\overset{p}{\text{`}} 14.75 \div 5$

$$\begin{array}{r} \overset{p}{\text{`}} \\ 3 \overline{)1475} (2 \ 95 \\ \underline{10} \\ 47 \\ \underline{45} \\ 25 \\ \underline{25} \\ \times \end{array}$$

Quotient =  $\overset{p}{\text{`}} 24.22$  p  
or  $\overset{p}{\text{`}} 24.22$

b.  $\overset{p}{\text{`}} 76.82 \div 2$

$$\begin{array}{r} \overset{p}{\text{`}} \\ 2 \overline{)7682} (38 \ 41 \\ \underline{60} \\ 16 \\ \underline{16} \\ 8 \\ \underline{8} \\ 2 \\ \underline{2} \\ \times \end{array}$$

Quotient =  $\overset{p}{\text{`}} 38.41$  p  
or  $\overset{p}{\text{`}} 38.41$

c.  $\overset{p}{\text{`}} 13.65 \div 5$

$$\begin{array}{r} \overset{p}{\text{`}} \\ 5 \overline{)1365} (2 \ 73 \\ \underline{10} \\ 36 \\ \underline{35} \\ 15 \\ \underline{15} \\ \times \end{array}$$

Quotient =  $\overset{p}{\text{`}} 2.73$  p  
or  $\overset{p}{\text{`}} 2.73$

d.  $\overset{p}{\text{`}} 96.88 \div 4$

$$\begin{array}{r} \overset{p}{\text{`}} \\ 4 \overline{)9688} (24 \ 22 \\ \underline{8} \\ 16 \\ \underline{16} \\ 8 \\ \underline{8} \\ 8 \\ \underline{8} \\ \times \end{array}$$

Quotient =  $\overset{p}{\text{`}} 2.95$  p  
or  $\overset{p}{\text{`}} 2.95$

e.  $\overset{p}{\text{`}} 48.50 \div 5$

$$\begin{array}{r} \overset{p}{\text{`}} \\ 5 \overline{)4850} (9 \ 70 \\ \underline{45} \\ 35 \\ \underline{35} \\ 0 \\ \underline{0} \\ \times \end{array}$$

Quotient =  $\overset{p}{\text{`}} 9.70$  p  
or  $\overset{p}{\text{`}} 9.70$

f.  $\overset{p}{\text{`}} 82.80 \div 9$

$$\begin{array}{r} \overset{p}{\text{`}} \\ 9 \overline{)8280} (9 \ 20 \\ \underline{81} \\ 18 \\ \underline{18} \\ 0 \\ \underline{0} \\ \times \end{array}$$

Quotient =  $\overset{p}{\text{`}} 9.20$  p  
or  $\overset{p}{\text{`}} 9.20$

g.  $\overset{p}{\text{`}} 196.72 \div 4$

$$\begin{array}{r} \overset{p}{\text{`}} \\ 4 \overline{)19672} (49 \ 18 \\ \underline{16} \\ 36 \\ \underline{36} \\ 7 \\ \underline{4} \\ 32 \\ \underline{32} \\ \times \end{array}$$

Quotient =  $\overset{p}{\text{`}} 49.18$  p  
or  $\overset{p}{\text{`}} 49.18$

h.  $\overset{p}{\text{`}} 47.90 \div 5$

$$\begin{array}{r} \overset{p}{\text{`}} \\ 5 \overline{)4790} (9 \ 50 \\ \underline{45} \\ 29 \\ \underline{25} \\ 40 \\ \underline{40} \\ \times \end{array}$$

Quotient =  $\overset{p}{\text{`}} 9.58$  p  
or  $\overset{p}{\text{`}} 9.58$

i.  $\overset{p}{\text{`}} 55.00 \div 10$

$$\begin{array}{r} \overset{p}{\text{`}} \\ 10 \overline{)5500} (5 \ 50 \\ \underline{50} \\ 50 \\ \underline{50} \\ 0 \\ \underline{0} \\ \times \end{array}$$

Quotient =  $\overset{p}{\text{`}} 5.50$  p  
or  $\overset{p}{\text{`}} 5.50$

j. ₹ 281.92 ÷ 8

$$\begin{array}{r} \text{₹} \\ 8 \overline{)28192} \text{ (35 24} \\ \underline{24} \\ 41 \\ \underline{40} \\ 19 \\ \underline{16} \\ 32 \\ \underline{32} \\ \times \end{array}$$

Quotient = ₹ 35.24 p  
or ₹ 35.24

k. ₹ 225.75 ÷ 5

$$\begin{array}{r} \text{₹} \\ 5 \overline{)22575} \text{ (45 15} \\ \underline{20} \\ 25 \\ \underline{25} \\ 7 \\ \underline{5} \\ 25 \\ \underline{25} \\ \times \end{array}$$

Quotient = ₹ 45.15 p  
or ₹ 45.15

l. ₹ 75.30 ÷ 5

$$\begin{array}{r} \text{₹} \\ 5 \overline{)7530} \text{ (15 06} \\ \underline{5} \\ 25 \\ \underline{25} \\ 30 \\ \underline{30} \\ \times \end{array}$$

Quotient = ₹ 15.06 p  
or ₹ 15.06

## 2. Story sums :

- Ans.** a. Cost of 9 such pens =  $6.20 \times 9 = ₹ 55.80$   
 b. Cost of 8 such chairs =  $6.20 \times 9 = ₹ 55.80$   
 c. Cost of 5 such cold drinks =  $6.7 \times 5 = ₹ 33.50$   
 d. Cost of 8 such almirah =  $672 \times 8 = ₹ 5316$   
 e. Cost of one glass =  $87.60 \div 6 = ₹ 54.60$   
 f. Each child will get =  $765.50 \div 5 = ₹ 153.10$

$$\begin{array}{r} 14.60 \\ 8 \overline{)87.60} \\ \underline{6} \\ 27 \\ \underline{24} \\ 3.6 \\ \underline{3.6} \\ 0 \end{array}$$

$$\begin{array}{r} 153.10 \\ 5 \overline{)765.50} \\ \underline{5} \\ 26 \\ \underline{25} \\ 15 \\ \underline{15} \\ 5 \\ \underline{5} \\ 0 \\ \underline{0} \\ \times \end{array}$$

MCQs

**Tick (3) the correct answer :**

- Ans.** 1. ii    2. iii    3. iii    4. i



## 14 Pictorial Representation of Data

### Exercise 14.1

1. The following pictograph represents the number of cars sold in particular month in five cities :

**Ans.** No of cars sold :

Kanpur =  $8 \times 100 = 800$  cars

$$\text{Delhi} = 6 \times 100 = 600 \text{ cars}$$

$$\text{Mumbai} = 7 \times 100 = 700 \text{ cars}$$

$$\text{Bhopal} = 4 \times 100 = 400 \text{ cars}$$

$$\text{Kolkata} = 5 \times 100 = 500 \text{ cars}$$

$$\begin{aligned} \text{Total cars sold in a month} &= 800 + 600 + 700 + 400 + 500 \\ &= 3000 \text{ cars} \end{aligned}$$

2. **The pictograph shown the number of books issued in a school library in 6 days of a week.**

Ans. a.  $10 \times 10 = 100$  books

b.  $4 \times 10 = 40$  books

c. Number of books issued in a week

$$\text{Monday} = 4 \times 10 = 40$$

$$\text{Tuesday} = 4 \times 10 = 40$$

$$\text{Wednesday} = 4 \times 10 = 40$$

$$\text{Thursday} = 4 \times 10 = 40$$

$$\text{Friday} = 4 \times 10 = 40$$

$$\text{Saturday} = 4 \times 10 = 40$$

$$\begin{aligned} \text{Total number of books} &= 40 + 20 + 40 + 70 + 100 + 20 \\ &= 290 \text{ books} \end{aligned}$$

d. Monday and Wednesday =  $4 \times 10 = 40$  books

3. **In a fruit market the following fruits were sold on a day. Each fruit stands for 100 fruits :**

Ans. a. Number of fruits sold were

$$\text{Apple} = 2 \times 100 = 200$$

$$\text{Mango} = 3 \times 100 = 300$$

$$\text{Orange} = 1 \times 100 = 100$$

$$\text{Guava} = 4 \times 100 = 400$$

$$\text{Cherry} = 5 \times 100 = 500$$

b. Orange =  $1 \times 100 = 100$

c. Cherry =  $5 \times 100 = 500$

d. Total number of fruits sold were

$$\text{Apple} = 200$$

$$\text{Mango} = 300$$

$$\text{Orange} = 100$$

$$\text{Guava} = 400$$

$$\text{Cherry} = 500$$

$$\hline 1500$$

4. **The following pictograph shows the number of tractors in six villages A, B, C, D, E and F :**

Ans. a. Number of tractors in

$$\text{Village A} = 6 \times 10 = 60$$

$$\text{Village B} = 4 \times 10 = 40$$



$$\text{Village C} = 9 \times 10 = 90$$

$$\text{Village D} = 9 \times 10 = 90$$

$$\text{Village E} = 2 \times 10 = 20$$

$$\text{Village F} = 8 \times 10 = 80$$

b. Maximum number of tractors are in village A, C & D =  $9 \times 10 = 90$

c. Least number of tractors is in village E =  $2 \times 10 = 20$

d. Total number of tractors in 6 villages

$$\text{Village A} = 60$$

$$\text{Village B} = 40$$

$$\text{Village C} = 90$$

$$\text{Village D} = 90$$

$$\text{Village E} = 20$$

$$\text{Village F} = 80$$

---


$$380$$

5. The following pictograph represent the number of animals in a forest. If one picture stands for 10 animals then answer the questions given below :

Ans. a. Tigers and Rhinoceroses are the least =  $2 \times 10 = 20$

b. For is the maximum =  $6 \times 10 = 60$

c. Number of Elephants =  $3 \times 10 = 30$

d. Number of Deers =  $3 \times 10 = 30$

e. Number of Tigers =  $2 \times 10 = 20$

### Exercise 14.2

1. Make a frequency table for the data.

Ans. Samosas		$5 + 5 + 5 + 1 = 16$
Chips packets		$5 + 5 + 2 = 12$
Biscuits		$5 + 5 = 10$
Popcorn		$5 + 5 + 2 = 12$

2. Prepare a frequency table for the above data :

Cold drinks	Tally marks	Frequency
Limca		$5 + 5 + 4 + 1 = 15$
Coke		$5 + 5 + 2 = 12$
Pepsi		$5 + 5 + 3 = 13$
Mirinda		$5 + 5 + 5 + 2 = 17$
Maaza		$5 + 5 + 5 + 3 = 18$
Thums up		$5 + 5 + 4 = 14$
7 up		$5 + 5 + 1 = 11$

**3. Prepare a frequency table for the above data :**

Ans.

Vegetables	Tally marks	Frequency
Carrots		$5 + 5 + 4 = 14$
Brinjals		$5 + 3 = 8$
Lemons		$5 + 1 = 6$
Tomatoes		$5 + 1 = 6$
Chillies		$5 + 5 = 10$

Towards The Lab

Do yourself

**Model Test Paper-1**

**A. Tick (3) the correct option :**

Ans. 1. iii    2. iv    3. ii    4. iv    5. iv

**B. Solve the following :**

Ans. 1.

$$\begin{array}{r} 6187 \\ - 2567 \\ \hline 3620 \end{array}$$

2. Descending order : 819, 690, 619, 609, 517

3. Ascending order : 873, 1254, 3169, 3319, 5613, 6739

4.

$$\begin{array}{r} 263 \\ \times 52 \\ \hline 526 \\ 1315 \\ \hline 13676 \end{array}$$

5.

$$\begin{array}{r} 121 \\ 4 \overline{)484} \\ -4 \\ \hline 8 \\ -8 \\ \hline 4 \\ -4 \\ \hline 0 \end{array}$$

**Check :**

$$121 \times 4 + 0 = 484$$

**C. Answer the following questions :**

Ans.

1. 0359

2.  $3000 + 600 + 30 + 9$

3.  $1 = 1000, \quad 3 = 300, \quad 6 = 60, \quad 4 = 4$

4. i. Two thousand one hundred ninety nine  
 ii. Nine thousand three hundred sixty three  
 iii. One thousand thirty four

5. i. XXXVII                      ii. LVIII  
 iii. XXXI                        iv. LXXXVII

**D. Word Problems :**

1. Each student will get =  $540 \div 6 = 90$  books  
 2. Stickers pasted on 158 pages =  $14 \times 158 = 2212$   
 3. Total fruits =  $2735 + 1859 + 3456 = 8050$

## Model Test Paper-2

**A. Tick (3) the correct option :**

Ans. 1. iv    2. ii    3. ii    4. iii    5. iii

**B. Solve the following :**

- Ans. 1.  $3976 \text{ ml} = 3 \times 1000 \text{ ml} + 976 \text{ ml} = 3 \text{ } 1976 \text{ ml}$   
 2.  $8 \text{ min } 25 \text{ sec} = (8 \times 60) + 25 = 480 + 25 = 505 \text{ sec}$   
 3.  $\text{₹ } 26.5 \text{ paise} = (26 \times 100) + 5 = 2605 \text{ paise}$

4.

`	p	
	16	76
	25	20
+	15	70
	57	66

= ` 57.66





5. Each child will get

	153.10	
5	)765.50	
	-5	
	26	
	-25	
	15	
	-15	
	5	
	-5	
	0	

= ` 153.10

**C. Answer the following questions :**

Ans. 1.

Class	No. of Students
I	
II	
III	
IV	

Each  stands for five students

2. Days left in Jan =  $37 - 7 = 24$

Days left in Feb = 28

Days left in Mar = 9

No. of days she was on leave =  $24 + 8 + 9 = 61$  days

3. Do yourself

**D. Word Problems :**

Ans. 1. Length of each side =  $36 \div 4 = 9$  cm

2. Shopkeeper should return =

9
1 0 0 . 0 0
- 4 9 . 8 0
5 0 . 2 0

3. Left petrol =

l	ml
38	500
- 29	730
8	770