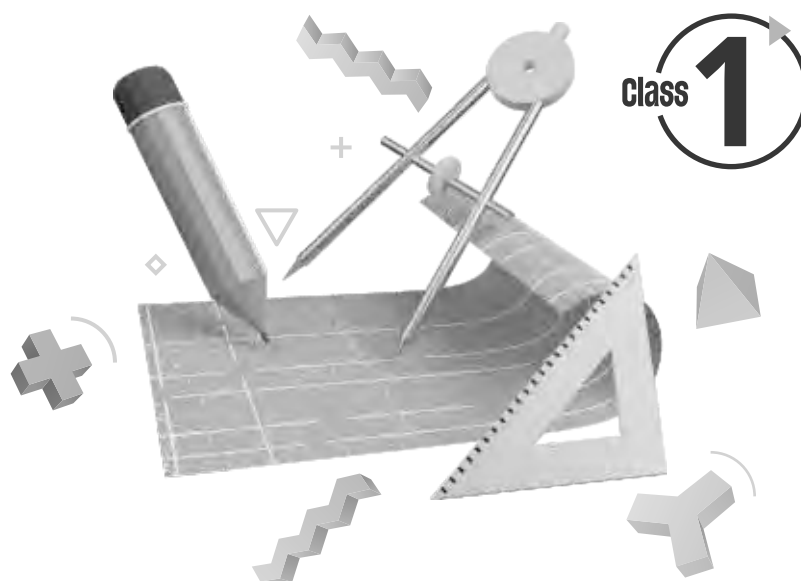




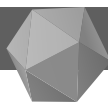
# FOCUS Maths

A Complete Course in Mathematics

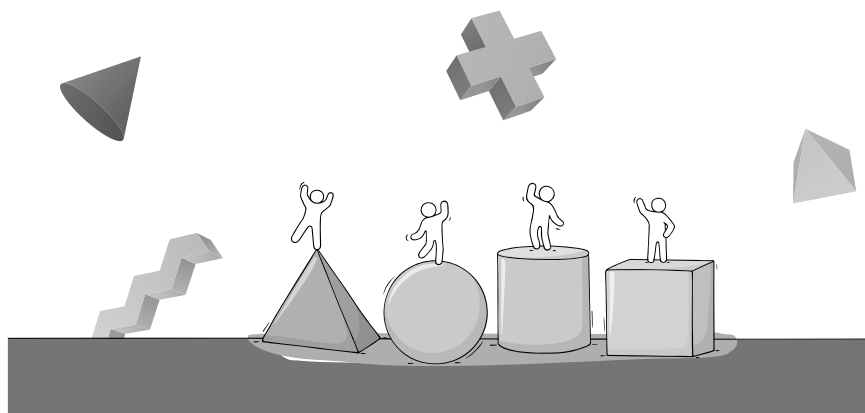
**Solution Manual**



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# Pre-number Skills



- Fill in the blanks with the correct words from the brackets.



- (a) The ball is **under** the chair.
- (b) The book is **on** the table.
- (c) The fan is **above** the bed.
- (d) The doll is **on** the bed.
- (e) The clock is **on** the wall.
- (f) The shoes are **under** the bed.

## Big and Small

1. Tick ☒ the bigger vehicle.



2. Tick ☒ the smallest animal.



3. Tick ☒ the biggest fruit and cross ☒ the smallest fruit.



## Heavy and Light

1. Tick ☒ the heavier flower vase.



2. Tick ☒ the lightest fruit.



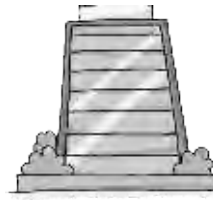


3. Tick ☒ the heaviest and cross ☒ the lightest vegetable.



### Tall and Short

1. Tick ☒ the taller building.



2. Tick ☒ the shortest boy.



3. Tick ☒ the tallest and cross ☒ the shortest animal.



Colour It Up

Do yourself.

Creativity, Integrate with Arts

### Apply Your Learning

Observation, Experiential Learning

- Tick (✓) the set with more objects and cross (X) with less objects.



### Think, Solve and Learn

Critical and logical thinking, Problem-solving

- Encircle the pictures which look the same in each set.



# 2

## Numbers up to 20

### Concept of Zero

- Tick (✓) the boxes with the correct answers.

(a) Tree with zero mangoes.



(b) Plate with zero sweets



(c) Plant with zero flowers



### Counting Numbers from 10 to 20

1. Read the numbers and match them with their number names.

Numbers	Number Names	Numbers	Number Names
15	Eleven	20	Nineteen
11	Eighteen	13	Twenty
18	Fifteen	19	Thirteen

### Bigger or Smaller

1. Colour the balloon with the bigger number yellow in the following pairs.

Do yourself.

### Biggest or Smallest




2. Colour the shape with the biggest number green and the shape with the smallest number blue.




Do yourself.

### Comparison of Numbers

1. Count the number of objects and put the correct symbol  $>$  or  $<$  or  $=$  in the boxes.

(a)  $=$

(b)   

(c)   

2. Compare the numbers and put the correct symbol  $>$  or  $<$  or  $=$  in the circles.

- (a)  $19 \square 12$  (b)  $10 \square 10$  (c)  $13 \square 17$   
 (d)  $8 \square 8$  (e)  $18 \square 20$  (f)  $15 \square 6$

### Before, After and Between

■ Write the numbers that come before or after or between the given numbers.

- (a) 

10	11
----	----

 (b) 

15	16
----	----

 (c) 

4	5	6
---	---	---

  
 (d) 

19	20
----	----

 (e) 

17	18
----	----

 (f) 

17	18	19
----	----	----

### Ordering Numbers

1. Arrange the given numbers in increasing and decreasing order.

	Increasing order	Decreasing order
(a) 8, 3, 7, 5, 9	<u>3, 5, 7, 8, 9</u>	<u>9, 8, 7, 5, 3</u>
(b) 2, 6, 1, 9, 3	<u>1, 2, 3, 6, 9</u>	<u>9, 6, 3, 2, 1</u>
(c) 12, 9, 14, 7, 17	<u>7, 9, 12, 14, 17</u>	<u>17, 14, 12, 9, 7</u>
(d) 18, 13, 6, 10, 15	<u>6, 10, 13, 15, 18</u>	<u>18, 15, 13, 10, 6</u>

2. Write the order in which the following numbers have been arranged.

- (a) 8, 7, 6, 5 Decreasing order (b) 9, 12, 16, 20 Increasing order  
 (c) 18, 12, 10, 9 Decreasing order (d) 2, 6, 7, 11 Increasing order

### Backward Counting

■ Fill in the missing numbers by counting backward.

- (a) 

6	5	4	3	2	1
---	---	---	---	---	---

  
 (b) 

10	9	8	7	6	5
----	---	---	---	---	---

  
 (c) 

15	14	13	12	11	10
----	----	----	----	----	----

(d) 20 — 19 — 18 — 17 — 16 — 15

### Colour It Up

Do yourself.

Creativity, Integrate with Arts

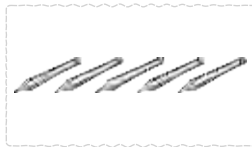
### Apply Your Learning

Observation, Experiential Learning

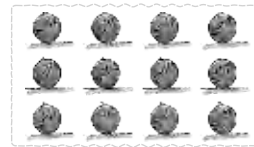
- Count the objects and write the number names.



Nine



Five

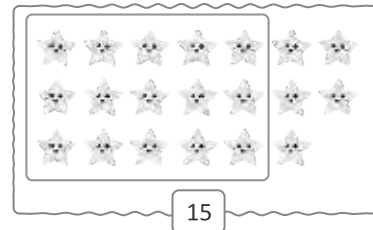
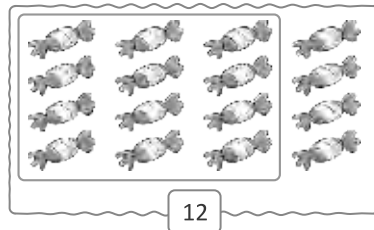


Twelve

### Think, Solve and Learn

Critical and logical thinking, Problem-solving

- Circle (○) the correct number of objects.



# 3

## Addition Up to 9



### Addition by Counting

- Count the number of objects in each collection and fill in the boxes.

(a)

+

⇒

2



+



5



=

7

9

(b)  +   $\Rightarrow$   $\bigcirc 3 + 5 = 8$

(c)  +   $\Rightarrow$   $\bigcirc 7 + 2 = 9$

(d)  +   $\Rightarrow$   $\bigcirc 5 + 4 = 9$

■ Add the following and write the answer in the given space.

- |  |  |  |
|--|--|--|
| (a) $1 + 0 =$ <span style="border: 1px solid black; padding: 2px 10px;">1</span> | (b) $3 + 0 =$ <span style="border: 1px solid black; padding: 2px 10px;">3</span> | (c) $5 + 0 =$ <span style="border: 1px solid black; padding: 2px 10px;">5</span> |
| (d) $7 + 0 =$ <span style="border: 1px solid black; padding: 2px 10px;">7</span> | (e) $8 + 0 =$ <span style="border: 1px solid black; padding: 2px 10px;">8</span> | (f) $9 + 0 =$ <span style="border: 1px solid black; padding: 2px 10px;">9</span> |
| (g) $2 + 1 =$ <span style="border: 1px solid black; padding: 2px 10px;">3</span> | (h) $6 + 1 =$ <span style="border: 1px solid black; padding: 2px 10px;">7</span> | (i) $4 + 1 =$ <span style="border: 1px solid black; padding: 2px 10px;">5</span> |
| (j) $8 + 1 =$ <span style="border: 1px solid black; padding: 2px 10px;">9</span> | (k) $7 + 1 =$ <span style="border: 1px solid black; padding: 2px 10px;">8</span> | (l) $5 + 1 =$ <span style="border: 1px solid black; padding: 2px 10px;">6</span> |

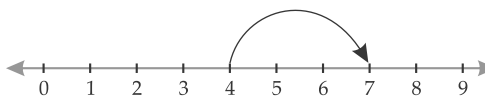
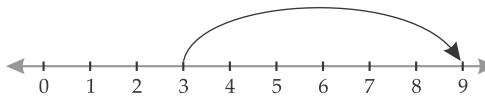
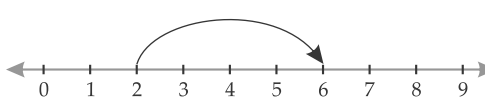
### Order in Addition

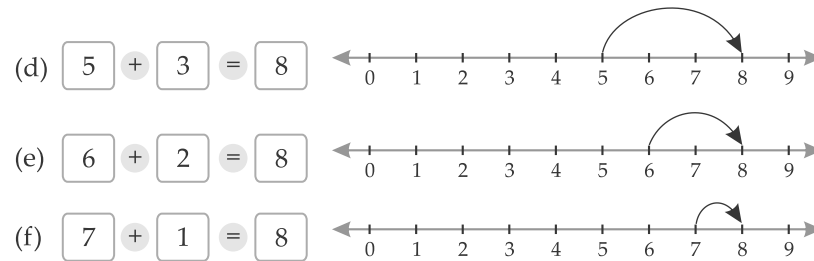
■ Add the given numbers. Write the answer in the space provided.

- |  |  |
|--|--|
| (a) $3 + 5 = 5 + 3 =$ <span style="border: 1px solid black; padding: 2px 10px;">8</span> | (d) $3 + 6 =$ <span style="border: 1px solid black; padding: 2px 10px;">9</span> $= 6 + 3$ |
| (b) $7 + 1 = 1 + 7 =$ <span style="border: 1px solid black; padding: 2px 10px;">8</span> | (e) $4 + 5 =$ <span style="border: 1px solid black; padding: 2px 10px;">9</span> $= 5 + 4$ |
| (c) $5 + 1 = 1 + 5 =$ <span style="border: 1px solid black; padding: 2px 10px;">6</span> | (f) $2 + 7 =$ <span style="border: 1px solid black; padding: 2px 10px;">9</span> $= 7 + 2$ |

### Add on Number Line

■ Add on number line:

- (a)  $\boxed{4} + \boxed{3} = \boxed{7}$  
- (b)  $\boxed{3} + \boxed{6} = \boxed{9}$  
- (c)  $\boxed{2} + \boxed{4} = \boxed{6}$  



### Addition by Counting Forward

■ Add by counting forward:

- |                                 |                                 |                                 |
|---------------------------------|---------------------------------|---------------------------------|
| (a) $\boxed{7} + 2 = \boxed{9}$ | (b) $\boxed{2} + 2 = \boxed{4}$ | (c) $\boxed{3} + 3 = \boxed{6}$ |
| (d) $\boxed{6} + 2 = \boxed{8}$ | (e) $\boxed{6} + 3 = \boxed{9}$ | (f) $\boxed{2} + 3 = \boxed{5}$ |
| (g) $\boxed{3} + 4 = \boxed{7}$ | (h) $\boxed{4} + 3 = \boxed{7}$ | (i) $\boxed{5} + 3 = \boxed{8}$ |
| (j) $\boxed{2} + 4 = \boxed{6}$ | (k) $\boxed{4} + 4 = \boxed{8}$ | (l) $\boxed{5} + 4 = \boxed{9}$ |
| (m) $\boxed{4} + 2 = \boxed{6}$ | (n) $\boxed{2} + 5 = \boxed{7}$ | (o) $\boxed{4} + 5 = \boxed{9}$ |

### Vertical Addition (Column Method)

■ Add:

- |   |   |   |   |
|---|---|---|---|
| (a) $\begin{array}{r} \boxed{2} \\ + \boxed{2} \\ \hline 4 \end{array}$ | (b) $\begin{array}{r} \boxed{3} \\ + \boxed{3} \\ \hline 6 \end{array}$ | (c) $\begin{array}{r} \boxed{4} \\ + \boxed{4} \\ \hline 8 \end{array}$ | (d) $\begin{array}{r} \boxed{3} \\ + \boxed{2} \\ \hline 5 \end{array}$ |
| (e) $\begin{array}{r} \boxed{4} \\ + \boxed{3} \\ \hline 7 \end{array}$ | (f) $\begin{array}{r} \boxed{5} \\ + \boxed{4} \\ \hline 9 \end{array}$ | (g) $\begin{array}{r} \boxed{2} \\ + \boxed{5} \\ \hline 7 \end{array}$ | (h) $\begin{array}{r} \boxed{4} \\ + \boxed{2} \\ \hline 6 \end{array}$ |
| (i) $\begin{array}{r} \boxed{5} \\ + \boxed{3} \\ \hline 8 \end{array}$ | (j) $\begin{array}{r} \boxed{5} \\ + \boxed{2} \\ \hline 7 \end{array}$ | (k) $\begin{array}{r} \boxed{6} \\ + \boxed{3} \\ \hline 9 \end{array}$ | (l) $\begin{array}{r} \boxed{4} \\ + \boxed{5} \\ \hline 9 \end{array}$ |
| (m) $\begin{array}{r} \boxed{6} \\ + \boxed{2} \\ \hline 8 \end{array}$ | (n) $\begin{array}{r} \boxed{2} \\ + \boxed{3} \\ \hline 5 \end{array}$ | (o) $\begin{array}{r} \boxed{7} \\ + \boxed{2} \\ \hline 9 \end{array}$ | (p) $\begin{array}{r} \boxed{1} \\ + \boxed{5} \\ \hline 6 \end{array}$ |

## Addition of Three Numbers

■ Add the following:

(a)  $3 + 4 + 1 = 8$

(b)  $1 + 3 + 4 = 8$

(c)  $4 + 2 + 3 = 9$

(d)  $2 + 3 + 4 = 9$

(e)  $6 + 1 + 2 = 9$

(f)  $1 + 2 + 6 = 9$

## Vertical Addition of Three numbers

■ Add:

(a) 
$$\begin{array}{r} 1 \\ + 2 \\ + 3 \\ \hline 6 \end{array}$$

(b) 
$$\begin{array}{r} 2 \\ + 3 \\ + 2 \\ \hline 7 \end{array}$$

(c) 
$$\begin{array}{r} 4 \\ + 1 \\ + 3 \\ \hline 8 \end{array}$$

(d) 
$$\begin{array}{r} 1 \\ + 5 \\ + 2 \\ \hline 8 \end{array}$$



(e) 
$$\begin{array}{r} 6 \\ + 2 \\ + 1 \\ \hline 9 \end{array}$$

(f) 
$$\begin{array}{r} 3 \\ + 1 \\ + 5 \\ \hline 9 \end{array}$$

(g) 
$$\begin{array}{r} 3 \\ + 3 \\ + 3 \\ \hline 9 \end{array}$$

(h) 
$$\begin{array}{r} 2 \\ + 2 \\ + 2 \\ \hline 6 \end{array}$$

## Word Problems


1.   
$$\begin{array}{r} 3 \\ + 4 \\ \hline 7 \end{array}$$
  
3 balls and 4 more balls make how many balls in all?


2.   
$$\begin{array}{r} 7 \\ + 2 \\ \hline 9 \end{array}$$
  
7 carrots and 2 radishes make how many in all?

3.   
$$\begin{array}{r} 4 \\ + 2 \\ \hline 6 \end{array}$$
  
4 roses and 2 sunflowers make how many flowers in all?



4.







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

2 potatoes and 5 tomatoes make how many vegetables?

5.







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

5 mangoes and 4 bananas make how many fruits?

6.






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

6 cows and 3 goats make how many animals?

### Colour It Up

Creativity, Problem-solving, Integrate with Arts

- Find the sum and then colour as many objects.

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


### Apply Your Learning

Observation, Enquiry-based Learning

- Do yourself.

### Think, Solve and Learn

Critical and logical thinking, Problem-solving

(a) How much is 5 added to 0?

$$\underline{5 + 0 = 5}$$

(b) What is the sum of 8 and 1?

$$\underline{8 + 1 = 9}$$

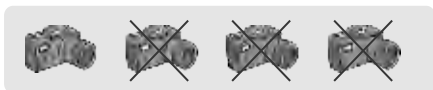






## Subtraction Up to 9












### Subtraction by Counting and Crossing Out

■ Cross out, count and Subtract :

- (a)   $\Rightarrow 4 - 3 = 1$
- (b)   $\Rightarrow 6 - 4 = 2$
- (c)   $\Rightarrow 7 - 5 = 2$
- (d)   $\Rightarrow 8 - 3 = 5$
- (e)   $\Rightarrow 9 - 4 = 5$

### Subtracting the Same Number

1. Fill in the blank boxes by observing the pictures.

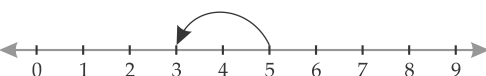

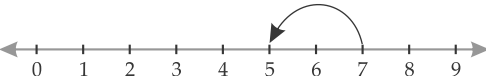
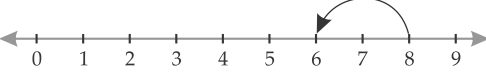
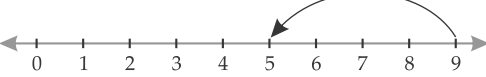
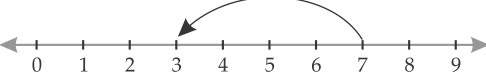
- (a)   $-$    $=$    
5                      1                      4
- (b)   $-$    $=$    
3                      0                      3
- (c)   $-$    $=$    
6                      6                      0

## 2. Fill in the boxes.

- (a)  $3 - 0 = \boxed{3}$  (b)  $5 - 1 = \boxed{4}$  (c)  $7 - 7 = \boxed{0}$   
 (d)  $9 - 9 = \boxed{0}$  (e)  $6 - 0 = \boxed{6}$  (f)  $8 - 1 = \boxed{7}$

## Subtraction on Number Line

### Subtract on number line:

- (a)  $\boxed{5} - \boxed{2} = \boxed{3}$  
- (b)  $\boxed{6} - \boxed{3} = \boxed{3}$  
- (c)  $\boxed{7} - \boxed{5} = \boxed{2}$  
- (d)  $\boxed{8} - \boxed{2} = \boxed{6}$  
- (e)  $\boxed{9} - \boxed{4} = \boxed{5}$  
- (f)  $\boxed{7} - \boxed{4} = \boxed{3}$  

## Subtraction by Counting Back

### Subtract by counting back:

- (a)  $4 - 2 = \boxed{2}$  (b)  $7 - 3 = \boxed{4}$  (c)  $7 - 5 = \boxed{2}$   
 (d)  $5 - 2 = \boxed{3}$  (e)  $8 - 2 = \boxed{6}$  (f)  $8 - 5 = \boxed{3}$   
 (g)  $6 - 2 = \boxed{4}$  (h)  $9 - 3 = \boxed{6}$  (i)  $9 - 5 = \boxed{4}$   
 (j)  $5 - 4 = \boxed{1}$  (k)  $8 - 2 = \boxed{6}$  (l)  $6 - 4 = \boxed{2}$   
 (m)  $9 - 2 = \boxed{7}$  (n)  $4 - 3 = \boxed{1}$  (o)  $8 - 4 = \boxed{4}$

## Vertical Subtraction (Column Method)

### Now Subtract:

- (a) 
$$\begin{array}{r} 7 \\ - 4 \\ \hline 3 \end{array}$$
 (b) 
$$\begin{array}{r} 5 \\ - 3 \\ \hline 2 \end{array}$$
 (c) 
$$\begin{array}{r} 8 \\ - 4 \\ \hline 4 \end{array}$$
 (d) 
$$\begin{array}{r} 9 \\ - 2 \\ \hline 7 \end{array}$$
 (e) 
$$\begin{array}{r} 6 \\ - 3 \\ \hline 3 \end{array}$$

(f)	$\begin{array}{r} 8 \\ - 5 \\ \hline 3 \end{array}$	(g)	$\begin{array}{r} 9 \\ - 4 \\ \hline 5 \end{array}$	(h)	$\begin{array}{r} 6 \\ - 5 \\ \hline 1 \end{array}$	(i)	$\begin{array}{r} 7 \\ - 2 \\ \hline 5 \end{array}$	(j)	$\begin{array}{r} 5 \\ - 2 \\ \hline 3 \end{array}$
(k)	$\begin{array}{r} 5 \\ - 4 \\ \hline 1 \end{array}$	(l)	$\begin{array}{r} 6 \\ - 4 \\ \hline 2 \end{array}$	(m)	$\begin{array}{r} 8 \\ - 3 \\ \hline 5 \end{array}$	(n)	$\begin{array}{r} 9 \\ - 3 \\ \hline 6 \end{array}$	(o)	$\begin{array}{r} 6 \\ - 2 \\ \hline 4 \end{array}$

### Word Problems

1. There were 6 parrots on a tree.  
3 parrots flew away. How many  
parrots were left on the tree?



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

2. There were 8 carrots on a basket.  
4 carrots were fell down. How many  
carrots were left in the basket?



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

3. There are 5 bees on a flower. 2 bees  
flew away. How many bees were  
left on the flower?



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

4. There were 5 pups. 2 pups ran  
away. How many pups were left?



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

5. There were 7 apples on a tree.  
3 apples fell down. How many  
apples were left on the tree?



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

6. There were 9 chocolates on a plate.  
4 chocolates were taken on. How  
many chocolates were left on the  
plate?



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

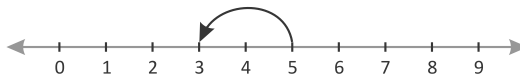


### Creative Corner

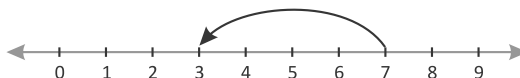
Creativity, Problem-solving

- Perform the following subtraction sums using your number strip.

(a)  $5 - 2 = 3$



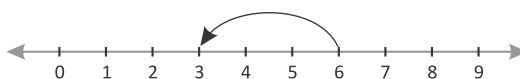
(b)  $7 - 4 = 3$



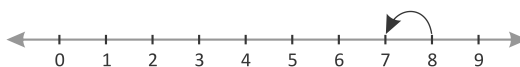
(c)  $4 - 2 = 2$



(d)  $6 - 3 = 3$



(e)  $8 - 7 = 1$



(f)  $9 - 4 = 5$



### Apply Your Learning

Observation, Enquiry-based learning

Buying balloon = ₹ 3  
 Buying chocolate = ₹ 5  
 Total spent = ₹ 3 + ₹ 5  
                   = ₹ 8  
 Total Rupees = ₹ 9  
 Spent = ₹ 8  
 Left money = ₹ 9 - ₹ 8  
                   = ₹ 1

### Think, Solve and Learn

Critical and logical thinking, Problem-solving

- (a) What will you get if you subtract 5 in place of 4 from 9?  $9 - 5 = 4$
- (b) How much marbles are left if you take away 7 marbles from 7 marbles?  $7 - 7 = 0$



## Numbers 21 to 50



### Understanding Numbers 21 to 50

1. Write the short form :

- (a)  $20 + 4 = 24$  (b)  $30 + 5 = 35$  (c)  $40 + 6 = 46$   
(d)  $40 + 8 = 48$  (e)  $20 + 2 = 22$  (f)  $30 + 3 = 33$

2. Write the long form :

- (a)  $23 = 20 + 3$  (b)  $37 = 30 + 7$  (c)  $42 = 40 + 2$   
(d)  $49 = 40 + 9$  (e)  $28 = 20 + 8$  (f)  $31 = 30 + 1$

3. Write the number names :

- (a) 21 Twenty One (b) 22 Twenty Two (c) 25 Twenty Five  
(d) 30 Thirty (e) 33 Thirty Three (f) 36 Thirty Six  
(g) 40 Forty (h) 42 Forty Two (i) 44 Forty Four  
(j) 47 Forty Seven (k) 48 Forty Eight (l) 49 Forty Nine

4. Write the missing numbers :

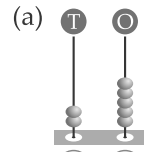
- (a) 26 27 28 29 30 31 32  
(b) 35 36 37 38 39 40 41  
(c) 43 44 45 46 47 48 49  
(d) 38 39 40 41 42 43 44

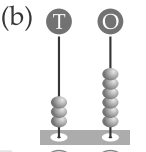
### Numbers on Abacus

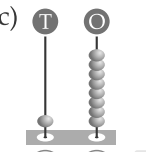
1. Write number and number names as on abacus :

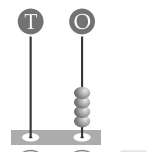
- (a) (b) (c) (d)   
Twenty Three Thirty Four Forty Three Forty Six

2. Write tens and ones, also numbers in the places :

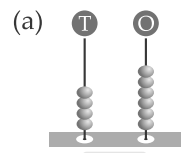
(a)   $\begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline \end{array}$   
 $\begin{array}{|c|c|} \hline 20 & 5 \\ \hline \end{array} = \begin{array}{|c|c|} \hline 2 & 5 \\ \hline \end{array}$   
number

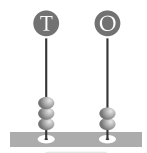
(b)   $\begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline \end{array}$   
 $\begin{array}{|c|c|} \hline 30 & 6 \\ \hline \end{array} = \begin{array}{|c|c|} \hline 3 & 6 \\ \hline \end{array}$   
number

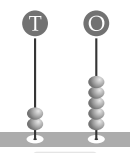
(c)   $\begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline \end{array}$   
 $\begin{array}{|c|c|} \hline 10 & 8 \\ \hline \end{array} = \begin{array}{|c|c|} \hline 1 & 8 \\ \hline \end{array}$   
number

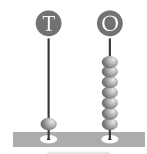
(d)   $\begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline \end{array}$   
 $\begin{array}{|c|c|} \hline 0 & 4 \\ \hline \end{array} = \begin{array}{|c|c|} \hline 0 & 4 \\ \hline \end{array}$   
number

3. Represent beads on spikes for the given numbers :

(a)   $\begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline \end{array}$   
46

(b)   $\begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline \end{array}$   
32

(c)   $\begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline \end{array}$   
25

(d)   $\begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline \end{array}$   
17

### Before, After and Between

1. Write what comes just before?

(a) 27 28 (b) 36 37 (c) 39 40  
(d) 48 49 (e) 48 26 (f) 49 50

2. Write what comes just after?

(a) 22 23 (b) 29 30 (c) 35 36  
(d) 39 40 (e) 41 42 (f) 49 50

3. Write what comes in between?

(a) 27 28 29 (b) 35 36 37 (c) 40 41 42  
(d) 39 40 41 (e) 46 47 48 (f) 48 49 50

4. Write what comes before and after?

(a) 20 21 22 (b) 29 30 31 (c) 37 38 39  
(d) 39 40 41 (e) 47 48 49 (f) 28 29 30

### Comparing Numbers

1. Compare and write '>', '<' or '=':

(a) 29 < 31 (b) 30 < 40 (c) 33 > 21  
(d) 38 = 38 (e) 43 = 43 (f) 28 > 26  
(g) 48 > 39 (h) 37 > 29 (i) 29 = 29

2. Do yourself.

## Ordering Numbers

1. Write in increasing order:

(a) 33, 28, 43, 39, 48	—	28, 33, 39, 43, 48
(b) 21, 35, 26, 45, 18	—	18, 21, 26, 35, 45
(c) 27, 44, 37, 32, 36	—	27, 32, 36, 37, 44
(d) 41, 23, 38, 25, 29	—	23, 25, 29, 38, 41

2. Write in decreasing order:

(a) 22, 24, 47, 38, 41	—	47, 41, 38, 24, 22
(b) 28, 33, 43, 34, 25	—	43, 34, 33, 28, 25
(c) 23, 35, 44, 37, 42	—	44, 42, 37, 35, 23
(d) 45, 26, 29, 49, 36	—	49, 45, 36, 29, 26

## Backward Counting

■ Complete the table by counting backward.

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

## Addition (Using tens and ones)

■ Add the following:

(a)	<table><tr><td>T</td><td>O</td></tr><tr><td>1</td><td>4</td></tr><tr><td>+</td><td>1 2</td></tr><tr><td colspan="2"><hr/></td></tr><tr><td>2</td><td>6</td></tr></table>	T	O	1	4	+	1 2	<hr/>		2	6	(b)	<table><tr><td>T</td><td>O</td></tr><tr><td>1</td><td>5</td></tr><tr><td>+</td><td>2 1</td></tr><tr><td colspan="2"><hr/></td></tr><tr><td>3</td><td>6</td></tr></table>	T	O	1	5	+	2 1	<hr/>		3	6	(c)	<table><tr><td>T</td><td>O</td></tr><tr><td>1</td><td>7</td></tr><tr><td>+</td><td>1 1</td></tr><tr><td colspan="2"><hr/></td></tr><tr><td>2</td><td>8</td></tr></table>	T	O	1	7	+	1 1	<hr/>		2	8	(d)	<table><tr><td>T</td><td>O</td></tr><tr><td>2</td><td>1</td></tr><tr><td>+</td><td>2 4</td></tr><tr><td colspan="2"><hr/></td></tr><tr><td>4</td><td>5</td></tr></table>	T	O	2	1	+	2 4	<hr/>		4	5
T	O																																														
1	4																																														
+	1 2																																														
<hr/>																																															
2	6																																														
T	O																																														
1	5																																														
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<hr/>																																															
3	6																																														
T	O																																														
1	7																																														
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2	8																																														
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+	2 4																																														
<hr/>																																															
4	5																																														
(e)	<table><tr><td>T</td><td>O</td></tr><tr><td>2</td><td>5</td></tr><tr><td>+</td><td>1 3</td></tr><tr><td colspan="2"><hr/></td></tr><tr><td>3</td><td>8</td></tr></table>	T	O	2	5	+	1 3	<hr/>		3	8	(f)	<table><tr><td>T</td><td>O</td></tr><tr><td>2</td><td>6</td></tr><tr><td>+</td><td>1 2</td></tr><tr><td colspan="2"><hr/></td></tr><tr><td>3</td><td>8</td></tr></table>	T	O	2	6	+	1 2	<hr/>		3	8	(g)	<table><tr><td>T</td><td>O</td></tr><tr><td>3</td><td>3</td></tr><tr><td>+</td><td>2 4</td></tr><tr><td colspan="2"><hr/></td></tr><tr><td>5</td><td>7</td></tr></table>	T	O	3	3	+	2 4	<hr/>		5	7	(h)	<table><tr><td>T</td><td>O</td></tr><tr><td>3</td><td>6</td></tr><tr><td>+</td><td>1 3</td></tr><tr><td colspan="2"><hr/></td></tr><tr><td>4</td><td>9</td></tr></table>	T	O	3	6	+	1 3	<hr/>		4	9
T	O																																														
2	5																																														
+	1 3																																														
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4	9																																														
(i)	<table><tr><td>T</td><td>O</td></tr><tr><td>4</td><td>8</td></tr><tr><td>+</td><td>1 1</td></tr><tr><td colspan="2"><hr/></td></tr><tr><td>5</td><td>9</td></tr></table>	T	O	4	8	+	1 1	<hr/>		5	9	(j)	<table><tr><td>T</td><td>O</td></tr><tr><td>4</td><td>5</td></tr><tr><td>+</td><td>2 4</td></tr><tr><td colspan="2"><hr/></td></tr><tr><td>6</td><td>9</td></tr></table>	T	O	4	5	+	2 4	<hr/>		6	9	(k)	<table><tr><td>T</td><td>O</td></tr><tr><td>2</td><td>4</td></tr><tr><td>+</td><td>1 5</td></tr><tr><td colspan="2"><hr/></td></tr><tr><td>3</td><td>9</td></tr></table>	T	O	2	4	+	1 5	<hr/>		3	9	(l)	<table><tr><td>T</td><td>O</td></tr><tr><td>3</td><td>7</td></tr><tr><td>+</td><td>1 2</td></tr><tr><td colspan="2"><hr/></td></tr><tr><td>4</td><td>9</td></tr></table>	T	O	3	7	+	1 2	<hr/>		4	9
T	O																																														
4	8																																														
+	1 1																																														
<hr/>																																															
5	9																																														
T	O																																														
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<hr/>																																															
3	9																																														
T	O																																														
3	7																																														
+	1 2																																														
<hr/>																																															
4	9																																														



## Word Problems (Addition)

1. There were 16 red drums and 13 blue drums in a lorry. How many drums were there altogether?



T	O
1	6
+	1 3
<hr/>	
2	9

2. There are 15 ducks and 21 swans in a pond. How many birds are there in the pond?



T	O
1	5
+	2 1
<hr/>	
3	6

3. There are 24 ice-cream cups and 12 ice-cream cones in a box. How many ice-creams are there in the box?



T	O
2	4
+	1 2
<hr/>	
3	6

4. A seller has a basket with 27 mangoes and 21 oranges. How many fruits are there in the basket?



T	O
2	7
+	2 1
<hr/>	
4	8

## Subtraction (Using tens and ones)

- Subtract the following:

(a) 

T	O
2	5
-	1 4
<hr/>	
1	1

(b) 

T	O
1	9
-	1 5
<hr/>	
0	4

(c) 

T	O
4	6
-	1 2
<hr/>	
3	4

(d) 

T	O
3	7
-	1 3
<hr/>	
2	4

(e) 

T	O
2	8
-	1 4
<hr/>	
1	4

(f) 

T	O
3	6
-	2 5
<hr/>	
1	1

(g) 

T	O
4	3
-	2 3
<hr/>	
2	0

(h) 

T	O
4	5
-	3 3
<hr/>	
1	2

(i) 

T	O
3	5
-	2 0
<hr/>	
1	5

(j) 

T	O
3	6
-	2 3
<hr/>	
1	3

(k) 

T	O
4	0
-	2 0
<hr/>	
2	0

(l) 

T	O
3	0
-	1 0
<hr/>	
2	0

## Word Problems (Subtraction)

1. There were 27 apples on a tree. 7 of them fell down. How many were left on the tree?



T	O
2	7
-	0 7
<hr/>	
2	0

2. Sagar had 28 rupees. He spent 15 rupees. How much money is left with him?



T	O
2	8
-	1 5
<hr/>	
1	3

3. There are 46 pages in a book. If Harsh read 14 pages, how many are left to read?



T	O
4	6
-	1 4
<hr/>	
3	2

4. In a box there were 32 sweets. Alok distributed 22 of them. How many were left?



T	O
3	2
-	2 2
<hr/>	
1	0

5. A seller had 40 bananas in his basket. He sold 20 of them. How many are left in the basket?



T	O
4	0
-	2 0
<hr/>	
2	0



### Creative Corner

Creativity, Problem-solving

Do yourself.

### Apply Your Learning

Reinforcement, Critical and logical thinking, Problem-solving

Do yourself.

### Think, Solve and Learn

Critical and logical thinking, Problem-solving

- (a) What is the smallest 2-digit number?

**Ans.** The smallest 2-digit number = 10

(b) What comes after the number formed with 4 tens and 5 ones?

**Ans.** 4 tens and 5 ones = 4 tens + 5 ones  
= 40 + 5  
= 45

∴ 45 comes after 46.

(c) Which number is greater?

4 tens + 4 ones or 5 tens + 0 ones

**Ans.** 4 tens + 4 ones = 40 + 4  
= 44

5 tens + 0 ones = 50 + 0  
= 50

∴ 44 < 50

Greater Number = 50



## Numbers 51 to 100



### Numbers 51 to 100

1. Write numbers 51 to 100 :

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

2. Write the missing numbers :

(a)	56	57	58	59	60	61	62	63
(b)	69	70	71	72	73	74	75	76
(c)	85	86	87	88	89	90	91	92
(d)	89	90	91	92	93	94	95	96

3. Write the numbers :

Fifty eight 58

Seventy six 76

Sixty nine 69

Eighty seven 87

Seventy four 74

Eighty 80

Ninety three 93

Hundred 100

Ninety nine 99

4. Write the number names :

57 Fifty seven

67 Sixty seven

96 Ninety six

88 Eighty eight

78 Seventy eight

70 Seventy

79 Seventy nine

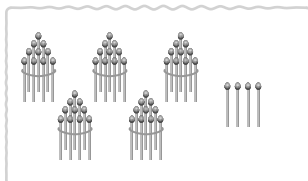
95 Ninety five

100 Hundred

## Understanding 51 to 100

■ Fill in the blanks :

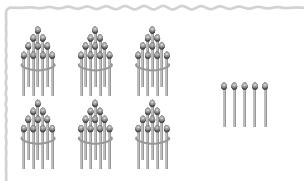
(a)



5 tens and 4 ones make 54

$$50 + 4 = 54$$

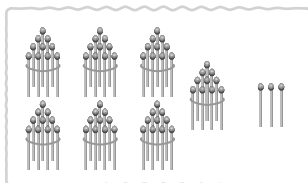
(b)



6 tens and 5 ones make 65

$$60 + 5 = 65$$

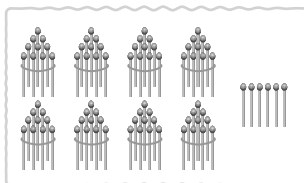
(c)



7 tens and 3 ones make 73

$$70 + 3 = 73$$

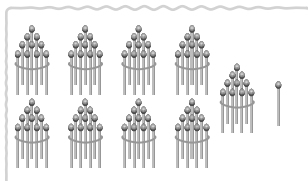
(d)



8 tens and 6 ones make 86

$$80 + 6 = 86$$

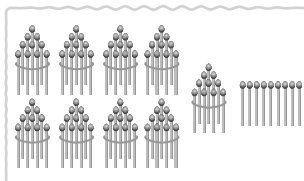
(e)



9 tens and 1 one make 91

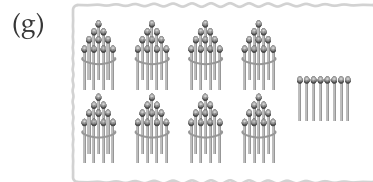
$$90 + 1 = 91$$

(f)

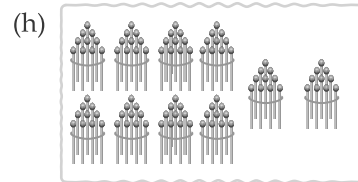


9 tens and 9 ones make 99

$$90 + 9 = 99$$



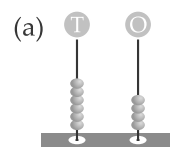
8 tens and 8 ones make 88  
 $80 + 8 = 88$



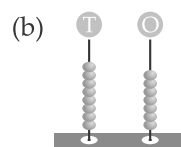
9 tens and 1 ten make 100  
 $90 + 10 = 100$

## Numbers on Abacus

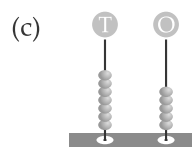
1. Write number and number names as show on the abacus :



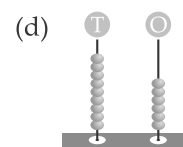
6 4  
 Sixty Four



8 7  
 Eighty Seven

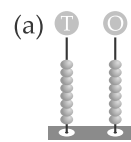


7 5  
 Seventy Five

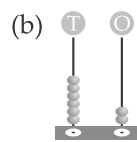


9 6  
 Ninety Six

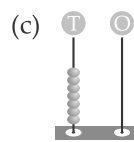
2. Write tens and ones and also numbers in the places :



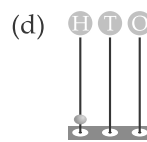
$80 + 8 = 88$   
 number



$60 + 2 = 62$   
 number

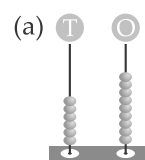


$70 + 0 = 70$   
 number

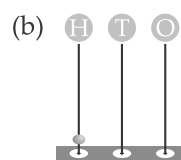


$100 + 0 + 0 = 100$   
 number

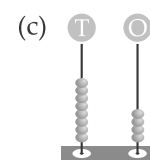
3. Represent beads on spikes for the given numbers :



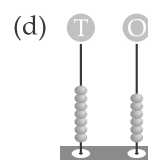
69



100



84



76

## Short and Long Forms

1. Write in short form :

$$\begin{array}{r} 50 + 2 = 52 \\ 50 + 7 = 57 \end{array}$$

2. Write in expanded form (long form) :

$$\begin{array}{r} 54 = 50 + 4 \\ 63 = 60 + 3 \end{array}$$

$$\begin{array}{rcl} 60 + 3 & = & 63 \\ 80 + 4 & = & 84 \\ 70 + 5 & = & 75 \\ 90 + 1 & = & 91 \\ 60 + 7 & = & 67 \\ 50 + 8 & = & 58 \\ 80 + 6 & = & 86 \\ 90 + 3 & = & 93 \\ 70 + 7 & = & 77 \end{array}$$

$$\begin{array}{rcl} 76 & = & 70 + 6 \\ 83 & = & 80 + 3 \\ 97 & = & 90 + 7 \\ 52 & = & 50 + 2 \\ 87 & = & 80 + 7 \\ 92 & = & 90 + 2 \\ 58 & = & 50 + 8 \\ 61 & = & 60 + 1 \\ 74 & = & 70 + 4 \end{array}$$

### 3. Fill in the blanks :

$50 + \underline{5} = 55$

$60 + \underline{4} = 64$

$70 + \underline{2} = 72$

$90 + \underline{7} = 97$

$80 + \underline{7} = 87$

$60 + \underline{3} = 63$

$\underline{60} + 5 = 65$

$\underline{60} + 3 = 63$

$\underline{80} + 4 = 84$

$\underline{90} + 7 = 97$

$\underline{70} + 9 = 79$

$\underline{50} + 8 = 58$

$60 + \underline{9} = 69$

$\underline{70} + 6 = 76$

$80 + \underline{9} = 89$

$\underline{70} + \underline{3} = 73$

$\underline{80} + \underline{5} = 85$

$\underline{90} + \underline{9} = 99$

## Comparing Numbers

### 1. Compare and Write '>', '<' and '=' in boxes :

$58 < 62$

$67 < 70$

$75 < 79$

$87 < 91$

$98 > 97$

$63 > 59$

$55 < 56$

$64 = 64$

$88 < 98$

$73 > 63$

$59 < 60$

$71 < 80$

### 2. Write >, < or = in blanks :

$\text{Fifty one} < \text{Sixty eight}$

$\text{Ninety three} > \text{Forty four}$

$\text{Seventy one} > \text{Sixty nine}$

$\text{Sixty five} > \text{Fifty five}$

$\text{Forty eight} < \text{Fifty eight}$

$\text{Seventy four} > \text{Forty seven}$

## Greatest and Smallest Number

1. Circle the smallest number among :

(57) 68 72 91	49 39 59 (29)	72 (27) 78 87
82 61 (57) 79	79 89 98 (68)	80 90 70 (60)

2. Circle the greatest number among :

52 (57) 49 51	28 82 29 (92)	92 29 39 (99)
12 21 23 (32)	63 64 (65) 62	87 78 (89) 88

## Ordering Numbers

1. Write in increasing order (smallest to largest).

29	3	15	21	6	➡	3	6	15	21	29
43	28	19	8	36	➡	8	19	28	36	43
20	10	50	40	60	➡	10	20	40	50	60
68	86	78	88	79	➡	68	78	79	86	88
71	77	17	97	37	➡	17	37	71	77	97
75	57	45	55	65	➡	45	55	57	65	75
25	65	35	5	45	➡	5	25	35	45	65
79	91	97	87	78	➡	78	79	87	91	97

2. Write in decreasing order (largest to smallest).

16	21	13	5	32	➡	32	21	16	13	5
15	14	16	19	6	➡	19	16	15	14	6
30	40	20	10	50	➡	50	40	30	20	10
38	48	68	58	28	➡	68	58	48	38	28
81	38	83	18	88	➡	88	83	81	38	18

55	45	25	35	5	→	55	45	35	25	5
29	49	99	94	92	→	99	94	92	49	29
77	87	78	88	97	→	97	88	87	78	77

### Before, After and Between

#### 1. What comes just before?

51	←	52	58	←	59	59	←	60	76	←	77
58	←	59	69	←	70	80	←	81	88	←	89
90	←	91	87	←	88	98	←	99	99	←	100

#### 2. What comes just after?

59	→	60	67	→	68	69	→	70	80	→	81
71	→	72	85	→	86	89	→	90	93	→	94
99	→	100	56	→	57	60	→	61	79	→	80

#### 3. Write the number in between :

59	60	61	70	71	72	61	62	63	75	76	77
84	85	86	68	69	70	97	98	99	55	56	57
98	99	100	78	79	80	89	90	91	69	70	71

#### 4. What comes just before and after?

59	60	61	67	68	69	74	75	76	78	79	80
80	81	82	87	88	89	89	90	91	49	50	51
61	62	63	76	77	78	82	83	84	98	99	100

#### 5. Fill in the blanks :

The number just before 59 is 58 .

The number just after 68 is 69 .

The number just before 91 is 90.



The number just after 60 is 61.  
 69 is in between 68 and 70 .  
 70 is in between 69 and 71.  
 57 is in between 56 and 58 .  
99 is in between 98 and 100.  
79 is in between 78 and 80.  
90 is in between 89 and 91.

## Vertical Addition

### 1. Add :

$$\begin{array}{r} \text{T O} \\ 41 \\ + \quad 3 \\ \hline 44 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 40 \\ + \quad 9 \\ \hline 49 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 23 \\ + \quad 4 \\ \hline 27 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \quad 6 \\ + 52 \\ \hline 58 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 52 \\ + 25 \\ \hline 77 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 34 \\ + 43 \\ \hline 77 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 82 \\ + 16 \\ \hline 98 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 36 \\ + 42 \\ \hline 78 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 44 \\ + 20 \\ \hline 64 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 65 \\ + 30 \\ \hline 95 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 29 \\ + 70 \\ \hline 99 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 67 \\ + 30 \\ \hline 97 \end{array}$$

### 2. Add :

$$\begin{array}{r} \text{T O} \\ 52 \\ + 20 \\ \hline 72 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 60 \\ + 30 \\ \hline 90 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 70 \\ + 10 \\ \hline 80 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 40 \\ + 55 \\ \hline 95 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 22 \\ + 33 \\ \hline 55 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 44 \\ + 55 \\ \hline 99 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 66 \\ + 22 \\ \hline 88 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 88 \\ + 11 \\ \hline 99 \end{array}$$

## Row Addition

1. Add :

$12 + 21 = 33$

$20 + 30 = 50$

$22 + 33 = 55$

$54 + 23 = 77$

$62 + 16 = 78$

$29 + 50 = 79$

$60 + 35 = 95$

$71 + 13 = 84$

$64 + 32 = 96$

$92 + 6 = 98$

$83 + 16 = 99$

$55 + 3 = 58$

2. Add :

$23 + 32 = 55$

$45 + 54 = 99$

$63 + 36 = 99$

$46 + 22 = 68$

$74 + 13 = 87$

$90 + 9 = 99$

$40 + 50 = 90$

$51 + 27 = 78$

$29 + 30 = 59$

$26 + 51 = 77$

$37 + 21 = 58$

$80 + 20 = 100$

## Word Problems (Addition)

1. There are 24 swans and 34 ducks in a pond. How many birds altogether are there?



T	O
2	4
+ 3 4	
5 8	

2. There are 57 apples in a basket and 21 mangoes in another basket. How many fruits are there in all?



T	O
5	7
+ 2 1	
7 8	

3. There are 47 students in IA and 42 students in IB. How many students are there in class I?



T	O
4	7
+ 4 2	
8 9	

4. A shopkeeper has 63 blue pens and 36 black pens. How many pens are in all with him?



T	O
6	3
+ 3 6	
9 9	

## Subtraction

### 1. Subtract :

$$\begin{array}{r} \text{T O} \\ 28 \\ - 5 \\ \hline 23 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 67 \\ - 7 \\ \hline 60 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 98 \\ - 6 \\ \hline 92 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 56 \\ - 3 \\ \hline 53 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 50 \\ - 10 \\ \hline 40 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 60 \\ - 40 \\ \hline 20 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 90 \\ - 80 \\ \hline 10 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 70 \\ - 50 \\ \hline 20 \end{array}$$

### 2. Subtract :

$$\begin{array}{r} \text{T O} \\ 86 \\ - 35 \\ \hline 51 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 98 \\ - 76 \\ \hline 22 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 59 \\ - 39 \\ \hline 20 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 83 \\ - 62 \\ \hline 21 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 76 \\ - 42 \\ \hline 34 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 88 \\ - 63 \\ \hline 25 \end{array}$$

$$\begin{array}{r} \text{T O} \\ 74 \\ - 63 \\ \hline 11 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 100 \\ - 90 \\ \hline 10 \end{array}$$

## Word Problems (Subtraction)

1. A book has 88 pages. Puja has read 66 pages. How many pages are left to read?



$$\begin{array}{r} \text{T O} \\ 88 \\ - 66 \\ \hline 22 \end{array}$$

2. A zoo had 68 animals. 36 of them are sent back to the jungle. How many animals are left at the zoo?



$$\begin{array}{r} \text{T O} \\ 68 \\ - 36 \\ \hline 32 \end{array}$$

3. A shopkeeper had a bag with 80 toffees. He sold 40 toffees from the bag. How many toffees are left in the bag?



T	O
8	0
-	4
	0
	4
	0

4. There are 43 students in class I. 12 were found absent on a day. How many were present on that day?



T	O
4	3
-	1
	2
	3
	1

5. There are 96 apples in a basket. 34 apples got rotten. How many apples are left fresh in the basket?



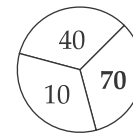
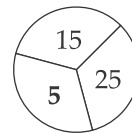
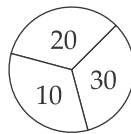
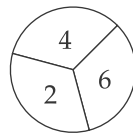
T	O
9	6
-	3
	4
	6
	2



### Creative Corner

Creativity, Problem-solving

- Look at the numbers and their relation in each circle. Complete the (?) space.



### Apply Your Learning

Critical and logical thinking, Problem-solving

Tick (✓) the number that comes in the box.

32	<	38	54	47	32✓	78	64
89	>	85	42	28	55	89✓	70
55	=	55	45	55✓	35	95	75

### Think, Solve and Learn

Observation, Enquiry-based learning

Do yourself.



# Shapes and Patterns



## Shapes

1. Name the shapes of the following things :



Circle



Triangle



Square



Rectangle



Square



Rectangle

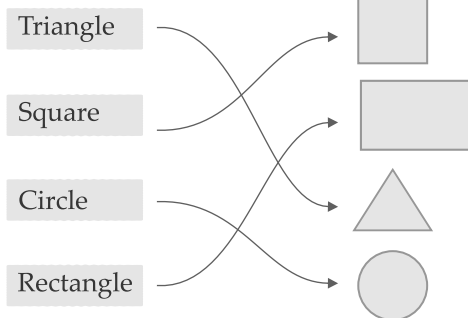


Circle



Triangle

2. Match the followings :



## Same Shapes

1. Tick (✓) the shape which is similar to the given shape :

(a)



(b)

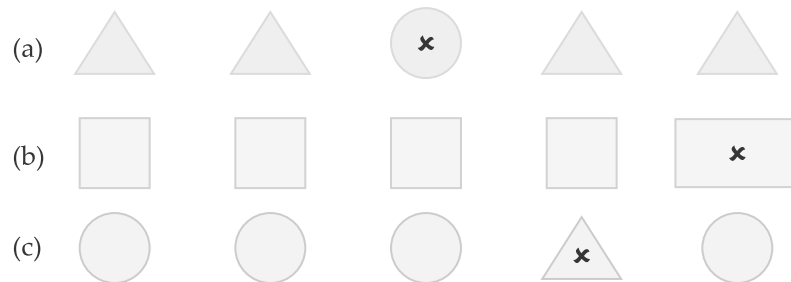




2. Colour the same-sized shapes using same colour :

Do Yourself.

3. Cross (x) the odd one out in each row :

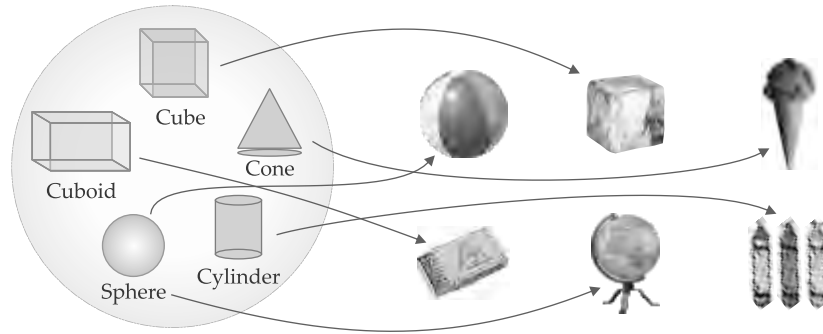


### Solid Shapes

1. See the picture and write their shape name :



2. Match the following :

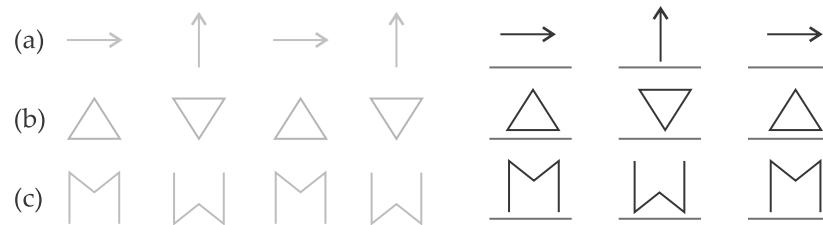


### Patterns

1. Observe the pattern and colour the shapes :

Do yourself.

2. Complete the given patterns :



3. Carry on the pattern :

(a)	10	20	30	40	50	60	70	80
(b)	11	22	33	44	55	66	77	88
(c)	100	90	80	70	60	50	40	30
(d)	99	98	97	96	95	94	93	92



**Creative Corner**

Creativity, Problem-solving

Do yourself.

**Apply Your Learning**

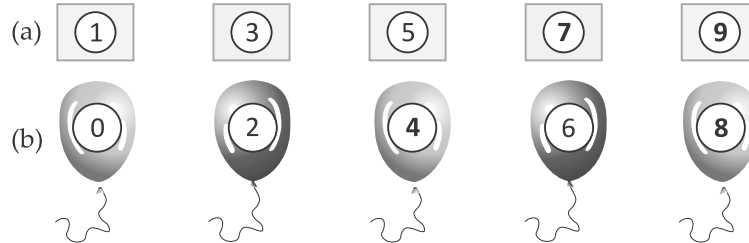
Creativity, Integrate with Arts, Observation

Do yourself.

# Think, Solve and Learn

Reinforcement, Critical and logical thinking, Problem-solving

Observe the given patterns and fill in the missing numbers.



## 8 Addition and Subtraction ...

### Addition with Carrying

1. Add :

(a) 
$$\begin{array}{r} \text{T O} \\ \text{①} \\ 22 \\ + \quad 8 \\ \hline 30 \end{array}$$
 (b) 
$$\begin{array}{r} \text{T O} \\ \text{①} \\ 34 \\ + \quad 7 \\ \hline 41 \end{array}$$
 (c) 
$$\begin{array}{r} \text{T O} \\ \text{①} \\ 56 \\ + \quad 6 \\ \hline 62 \end{array}$$
 (d) 
$$\begin{array}{r} \text{T O} \\ \text{①} \\ 75 \\ + \quad 8 \\ \hline 83 \end{array}$$
 (e) 
$$\begin{array}{r} \text{T O} \\ \text{①} \\ 49 \\ + \quad 2 \\ \hline 51 \end{array}$$

(f) 
$$\begin{array}{r} \text{T O} \\ \text{①} \\ \quad 8 \\ + 17 \\ \hline 25 \end{array}$$
 (g) 
$$\begin{array}{r} \text{T O} \\ \text{①} \\ \quad 5 \\ + 28 \\ \hline 33 \end{array}$$
 (h) 
$$\begin{array}{r} \text{T O} \\ \text{①} \\ \quad 9 \\ + 36 \\ \hline 45 \end{array}$$
 (i) 
$$\begin{array}{r} \text{T O} \\ \text{①} \\ \quad 7 \\ + 48 \\ \hline 55 \end{array}$$
 (j) 
$$\begin{array}{r} \text{T O} \\ \text{①} \\ \quad 6 \\ + 78 \\ \hline 84 \end{array}$$

(k) 
$$\begin{array}{r} \text{T O} \\ \text{①} \\ 87 \\ + \quad 5 \\ \hline 92 \end{array}$$
 (l) 
$$\begin{array}{r} \text{T O} \\ \text{①} \\ \quad 6 \\ + 56 \\ \hline 62 \end{array}$$
 (m) 
$$\begin{array}{r} \text{T O} \\ \text{①} \\ 73 \\ + \quad 9 \\ \hline 82 \end{array}$$
 (n) 
$$\begin{array}{r} \text{T O} \\ \text{①} \\ 41 \\ + \quad 9 \\ \hline 50 \end{array}$$
 (o) 
$$\begin{array}{r} \text{T O} \\ \text{①} \\ \quad 9 \\ + 67 \\ \hline 76 \end{array}$$

2. Add :

(a) 
$$\begin{array}{r} \text{T O} \\ \text{①} \\ 33 \\ + 58 \\ \hline 91 \end{array}$$
 (b) 
$$\begin{array}{r} \text{T O} \\ \text{①} \\ 17 \\ + 15 \\ \hline 32 \end{array}$$
 (c) 
$$\begin{array}{r} \text{T O} \\ \text{①} \\ 29 \\ + 16 \\ \hline 45 \end{array}$$
 (d) 
$$\begin{array}{r} \text{T O} \\ \text{①} \\ 24 \\ + 48 \\ \hline 72 \end{array}$$
 (e) 
$$\begin{array}{r} \text{T O} \\ \text{①} \\ 25 \\ + 25 \\ \hline 50 \end{array}$$



(f) 
$$\begin{array}{r} \text{T O} \\ \textcircled{1} \\ 48 \\ + 36 \\ \hline 84 \end{array}$$

(g) 
$$\begin{array}{r} \text{T O} \\ \textcircled{1} \\ 62 \\ + 19 \\ \hline 81 \end{array}$$

(h) 
$$\begin{array}{r} \text{T O} \\ \textcircled{1} \\ 29 \\ + 19 \\ \hline 48 \end{array}$$

(i) 
$$\begin{array}{r} \text{T O} \\ \textcircled{1} \\ 42 \\ + 28 \\ \hline 70 \end{array}$$

(j) 
$$\begin{array}{r} \text{T O} \\ \textcircled{1} \\ 17 \\ + 33 \\ \hline 50 \end{array}$$

(k) 
$$\begin{array}{r} \text{T O} \\ \textcircled{1} \\ 28 \\ + 28 \\ \hline 56 \end{array}$$

(l) 
$$\begin{array}{r} \text{T O} \\ \textcircled{1} \\ 49 \\ + 14 \\ \hline 63 \end{array}$$

(m) 
$$\begin{array}{r} \text{T O} \\ \textcircled{1} \\ 45 \\ + 37 \\ \hline 82 \end{array}$$

(n) 
$$\begin{array}{r} \text{T O} \\ \textcircled{1} \\ 56 \\ + 27 \\ \hline 83 \end{array}$$

(o) 
$$\begin{array}{r} \text{T O} \\ \textcircled{1} \\ 73 \\ + 27 \\ \hline 100 \end{array}$$

## Subtraction with Borrowing

### 1. Subtract :

(a) 
$$\begin{array}{r} \text{T O} \\ \textcircled{0} \textcircled{12} \\ \cancel{1} \cancel{2} \\ - \quad 6 \\ \hline 6 \end{array}$$

(b) 
$$\begin{array}{r} \text{T O} \\ \textcircled{0} \textcircled{13} \\ \cancel{1} \cancel{3} \\ - \quad 5 \\ \hline 8 \end{array}$$

(c) 
$$\begin{array}{r} \text{T O} \\ \textcircled{1} \textcircled{14} \\ \cancel{2} \cancel{4} \\ - \quad 9 \\ \hline 15 \end{array}$$

(d) 
$$\begin{array}{r} \text{T O} \\ \textcircled{2} \textcircled{15} \\ \cancel{3} \cancel{5} \\ - \quad 8 \\ \hline 27 \end{array}$$

(e) 
$$\begin{array}{r} \text{T O} \\ \textcircled{3} \textcircled{10} \\ \cancel{4} \cancel{0} \\ - \quad 7 \\ \hline 33 \end{array}$$

(f) 
$$\begin{array}{r} \text{T O} \\ \textcircled{8} \textcircled{10} \\ \cancel{9} \cancel{0} \\ - \quad 3 \\ \hline 87 \end{array}$$

(g) 
$$\begin{array}{r} \text{T O} \\ \textcircled{1} \textcircled{13} \\ \cancel{2} \cancel{3} \\ - \quad 5 \\ \hline 18 \end{array}$$

(h) 
$$\begin{array}{r} \text{T O} \\ \textcircled{2} \textcircled{16} \\ \cancel{3} \cancel{6} \\ - \quad 9 \\ \hline 27 \end{array}$$

(i) 
$$\begin{array}{r} \text{T O} \\ \textcircled{3} \textcircled{14} \\ \cancel{4} \cancel{4} \\ - \quad 5 \\ \hline 39 \end{array}$$

(j) 
$$\begin{array}{r} \text{T O} \\ \textcircled{5} \textcircled{12} \\ \cancel{6} \cancel{2} \\ - \quad 8 \\ \hline 54 \end{array}$$

### 2. Subtract :

(a) 
$$\begin{array}{r} \text{T O} \\ \textcircled{2} \textcircled{12} \\ \cancel{3} \cancel{2} \\ - 16 \\ \hline 16 \end{array}$$

(b) 
$$\begin{array}{r} \text{T O} \\ \textcircled{4} \textcircled{11} \\ \cancel{5} \cancel{1} \\ - 15 \\ \hline 36 \end{array}$$

(c) 
$$\begin{array}{r} \text{T O} \\ \textcircled{3} \textcircled{16} \\ \cancel{4} \cancel{6} \\ - 28 \\ \hline 18 \end{array}$$

(d) 
$$\begin{array}{r} \text{T O} \\ \textcircled{7} \textcircled{10} \\ \cancel{8} \cancel{0} \\ - 33 \\ \hline 47 \end{array}$$

(e) 
$$\begin{array}{r} \text{T O} \\ \textcircled{5} \textcircled{14} \\ \cancel{6} \cancel{4} \\ - 56 \\ \hline 08 \end{array}$$

(f) 
$$\begin{array}{r} \text{T O} \\ \textcircled{6} \textcircled{15} \\ \cancel{7} \cancel{5} \\ - 57 \\ \hline 18 \end{array}$$

(g) 
$$\begin{array}{r} \text{T O} \\ \textcircled{2} \textcircled{10} \\ \cancel{3} \cancel{0} \\ - 29 \\ \hline 01 \end{array}$$

(h) 
$$\begin{array}{r} \text{T O} \\ \textcircled{4} \textcircled{10} \\ \cancel{5} \cancel{0} \\ - 25 \\ \hline 25 \end{array}$$

(i) 
$$\begin{array}{r} \text{T O} \\ \textcircled{3} \textcircled{18} \\ \cancel{4} \cancel{8} \\ - 29 \\ \hline 19 \end{array}$$

(j) 
$$\begin{array}{r} \text{T O} \\ \textcircled{2} \textcircled{18} \\ \cancel{3} \cancel{8} \\ - 19 \\ \hline 19 \end{array}$$



## Creative Corner

Creativity, Problem-solving

- Put the correct sign and solve.

$$\begin{array}{r}
 38 \text{ 🌸} \\
 43 \text{ 🌸} \\
 \hline
 \end{array}
 \begin{array}{r}
 \textcircled{1} \\
 3 \ 8 \\
 + \ 4 \ 3 \\
 \hline
 8 \ 1
 \end{array}$$

How many flower?

$$\begin{array}{r}
 \text{🍌} \\
 \text{🍌} \\
 \hline
 \end{array}
 \begin{array}{r}
 \textcircled{5} \ \textcircled{14} \\
 \cancel{8} \ \cancel{4} \\
 - \ 2 \ 5 \\
 \hline
 3 \ 9
 \end{array}$$

How many left?

## Apply Your Learning






Observation, Problem-Solving, Experiential Learning

- Roma learnt new words in the first month = 46

Roma learnt new words in the second month = 35

Total words =  $46 + 35$

= 81 words

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





## Think, Solve and Learn

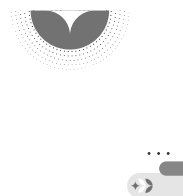
Critical and Logical thinking, Problem-solving

$$\begin{array}{r}
 \text{Richa has balloons} = 30 \\
 \text{Her mother gives her more balloons} = 12 \\
 \text{Total balloons} = 30 + 12 \\
 = 42 \text{ balloons} \\
 \text{Richa has total balloons} = 42 \\
 \text{Richa gives balloons to her brother} = 15 \\
 \text{Balloons are left with Richa} = 42 - 15 \\
 = 27 \text{ balloons}
 \end{array}$$

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

$$\begin{array}{r}
 \text{T} \ \text{O} \\
 \textcircled{3} \ \textcircled{12} \\
 \cancel{4} \ \cancel{2} \\
 - \ 1 \ 5 \\
 \hline
 2 \ 7
 \end{array}$$

# 9 Time

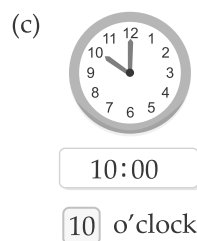
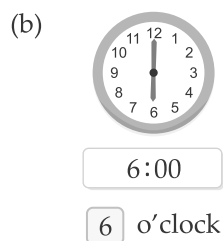
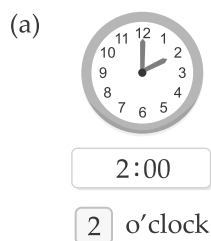


## Parts of the Day

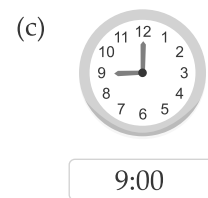
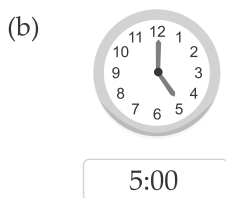
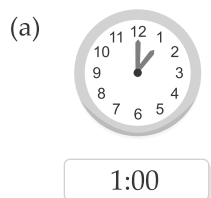
- Write the correct word in the blanks :  
Do yourself.

## Reading Time





- Write the time shown in the given clock in two different ways :




- Draw the hour hand and minute hand in the clock to show the time given below them :





- Write the time :



	I wake up at 6 o'clock 6:00	
	I go to school at 7 o'clock 7:00	




I return home at  
2 'o' clock  
 2:00

I go to play at  
4 'o' clock  
 4:00

I go to bed at  
9 'o' clock  
 9:00



## Ordinal Numbers

1. Do yourself.
2. Do yourself.

## Days of the Week

### ■ Fill in the blanks :

- (a) Monday is first day of a week.
- (b) Wednesday is third day of a week.
- (c) Sunday is seventh/last day of a week.
- (d) Saturday is day before Sunday.
- (e) Wednesday is day after Tuesday.
- (f) Saturday is between Friday and Sunday.
- (g) Monday is day before Tuesday .
- (h) Thursday is day after Wednesday.

## Months in a Year

1. Write the names of months in a year in the order :

1st	2nd	3rd	4th
January	February	March	April

5th May	6th June	7th July	8th August
9th September	10th October	11th November	12th December

2. Fill in the blanks :

- The first month of a year is January .
- The third month of a year is March.
- The fifth month of a year is May .
- The fourth month of a year is April.
- The seventh month of a year is July .
- The sixth month of a year is June.
- The last month of a year is December .
- The ninth month of a year is September.
- The second month of a year is February .
- The eight month of a year is August.



**Creative Corner**

Creativity, Experiential Learning

Do yourself.

**Apply Your Learning**

Observation, Critical and Logical thinking, Problem-solving

- Write in the correct columns :

Days of the Week	Months of the Year
Monday	January
Tuesday	March
Thursday	April
Friday	May
Sunday	June

**Think, Solve and Learn**

Critical and Logical thinking, Problem-solving

**Unscramble the words to form the day of a week :**

- (a) NOMAYD      MONDAY      (b) TEUDASY      TUESDAY  
(c) EDDWNSEYA      WEDNESDAY      (d) RUSHTADY      THURSDAY  
(e) RIDAFY      FRIDAY      (f) TURSAADY      SATURDAY  
(g) UNDASY      SUNDAY



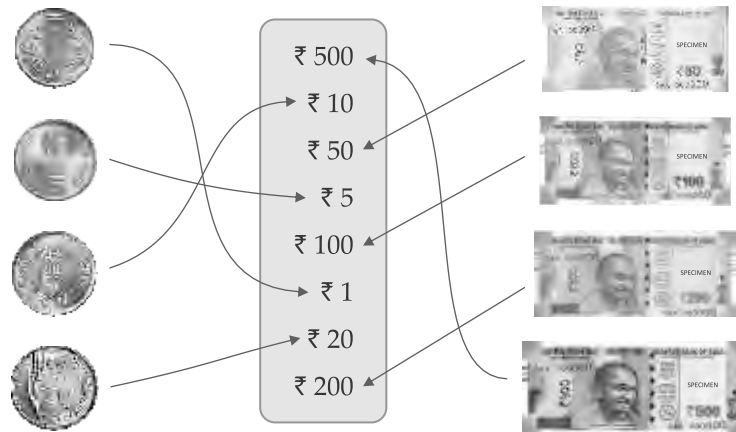
## Money

**Currency Notes**

1. Write the given amount in figures using symbols of rupees (₹) and paise (p).

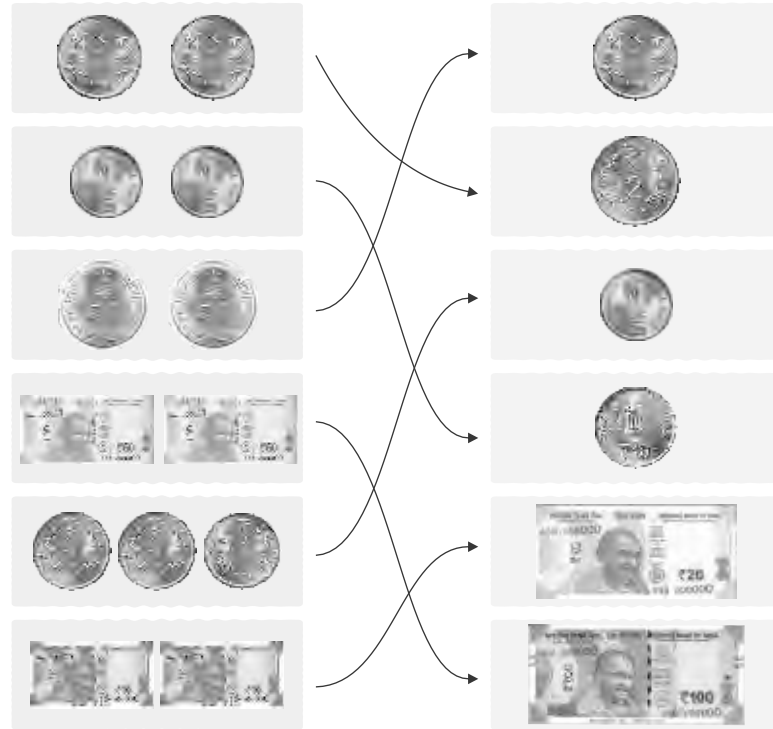
- (a) Eight rupees      ₹ 8      (b) Twenty-five rupees      ₹ 25  
(c) Seventy-five paise      75p      (d) Fifty paise      50p

2. Draw a line to match the given coins and notes with their values.



## Counting Money

1. Match the following :



2. Read the values written on each coin and currency note. Then count and add the amounts. Write the total amount in the box.

(a)  

$$₹ 10 + ₹ 20 = ₹ 30$$

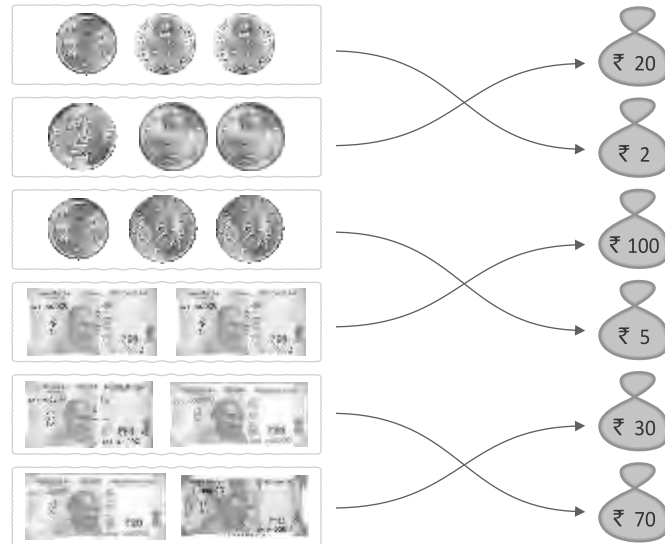
(b)   

$$₹ 50 + ₹ 20 + ₹ 5 = ₹ 75$$

(c)   

$$₹ 10 + ₹ 5 + ₹ 1 = ₹ 16$$

3. Match the following :



4. Fill in the blanks :

- (a) 10 rupees + 5 rupees = 15 rupees  
 (b) 20 rupees + 20 rupees = 40 rupees  
 (c) 2 rupees + 1 rupee = 3 rupees  
 (d) 50 rupees + 50 rupees = 100 rupees  
 (e) 5 rupees + 50 rupees = 55 rupees  
 (f) 5 rupees + 2 rupees = 7 rupees

### Money Sums

■ How much do they cost?

(a)	Ice-cream and Toy	(b)	Kurkure and Geometry Box	(c)	Pen and Eraser
	2 0 rupees		1 0 rupees		5 rupees
	+ 4 3 rupees		+ 1 5 rupees		+ 3 rupees
	<u>6 3 rupees</u>		<u>2 5 rupees</u>		<u>8 rupees</u>



(d)	Chocolate and Chips	(e)	Book and Pen	(f)	Toy and Kurkure
	2 5 rupees		3 2 rupees		4 3 rupees
	+ 2 2 rupees		+ 5 rupees		+ 1 0 rupees
	4 7 rupees		3 7 rupees		5 3 rupees

(g)	Jam and Chips	(h)	Book and Eraser	(i)	Jam and Chocolate
	6 4 rupees		3 2 rupees		6 4 rupees
	+ 2 2 rupees		+ 3 rupees		+ 2 5 rupees
	8 6 rupees		3 5 rupees		8 9 rupees

## Word Problems

1. Amit had ₹ 90 with him. He bought a pencil box for ₹ 40. How much money is left with him?  
₹ 50 is left with Amit.

	T	O
₹	9	0
- ₹	4	0
₹	5	0

2. Shree got ₹ 20 from her mother and ₹ 50 from her father. How much money did she get from both?  
Shree got ₹ 70 from both.

	T	O
₹	2	0
+ ₹	5	0
₹	7	0

## Colour It Up

Creativity, integrate with Arts, Problem-solving

Do yourself.

## Apply Your Learning

Reinforcement, Critical and Logical thinking, Problem-solving


Do yourself.

## Think, Solve and Learn

Critical and Logical thinking, Problem-solving

1. How many  coins will make  ?

10 coins

2. How many  notes will make  ?

10 notes



# 11 Measurements



## Measuring Length

1. Do yourself.
2. Do yourself.

## Measuring Weight

■ Fill in the blanks :

- (a) 2      (b) 3      (c) heavier      (d) 4

1. Tick (✓) the glass with less juice.

☐☒

2. Tick (✓) the jug with more water.

☐☒

3. Write M for more and L for less.



L



M



L



M



### Creative Corner

Creativity, Problem-solving

Do yourself.

### Apply Your Learning

Observation, Enquiry-based Learning

Do yourself.

### Think, Solve and Learn

Critical and Logical thinking, Problem-solving

Do yourself.








## Data Handling



### Data Handling

1. Count the number of fruits of each kind and write in the table.

Fruit					
Number of Fruit	5	3	3	4	3

2. Given below are the names of different animals. Count the letters in each name.

(a) 4      (b) 3      (c) 6      (d) 7

Now answer the following questions :

(a) 3      (b) 2      (c) 2      (d) 1

3. Observe and give the answer of the following questions :

(a) Bicycle      (b) Bus



### Colour It Up

Creativity, Problem-solving, Integrate with Arts

Do yourself.

### Apply Your Learning

Observation, Critical and Logical thinking

Do yourself.

### Think, Solve and Learn

Critical and Logical thinking, Problem-solving

Ans. Green Pearls



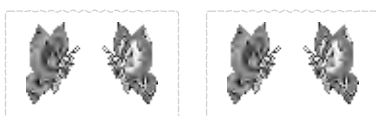
# Multiplication



## Multiplication

1. Fill in the blanks :

(a)



$$\begin{aligned} 2 + 2 &= \underline{4} \\ 2 \text{ twos are } &\underline{4} \\ 2 \times 2 &= \underline{4} \end{aligned}$$

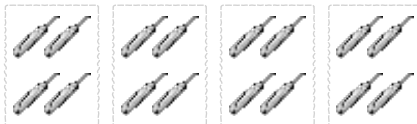
(b)



$$\begin{aligned} 5 + 5 + 5 &= \underline{15} \\ 3 \text{ fives are } &\underline{15} \\ 3 \times \underline{5} &= \underline{15} \end{aligned}$$

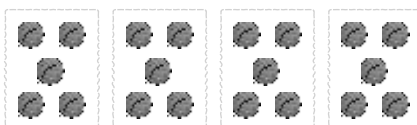
2. Fill in the blanks :

(a)



$$\begin{aligned} \underline{4} + \underline{4} + \underline{4} + \underline{4} &= 16 \\ 4 \text{ fours are } &\underline{16} \\ \underline{4} \times \underline{4} &= \underline{16} \end{aligned}$$

(b)



$$\begin{aligned} \underline{5} + \underline{5} + \underline{5} + \underline{5} &= 20 \\ 4 \text{ fives are } &\underline{20} \\ \underline{4} \times \underline{5} &= \underline{20} \end{aligned}$$

3. Write as multiplication :

- (a)  $4 \times 2$       (b)  $3 \times 3$       (c)  $5 \times 2$   
(d)  $5 \times 4$       (e)  $4 \times 3$       (f)  $4 \times 10$

4. Write as addition :

- (b)  $3 + 3$       (c)  $4 + 4 + 4 + 4 + 4$       (d)  $8 + 8 + 8 + 8$   
(e)  $7 + 7 + 7$       (f)  $10 + 10 + 10 + 10 + 10$       (g)  $5 + 5 + 5 + 5 + 5 + 5$

## Multiplication Tables

1. Fill in the blanks :

$1 \times 8 = \underline{8}$	$2 \times 3 = \underline{6}$	$2 \times 8 = \underline{16}$
$3 \times 4 = \underline{12}$	$3 \times 2 = \underline{6}$	$3 \times 7 = \underline{21}$
$2 \times 7 = \underline{14}$	$4 \times 5 = \underline{20}$	$4 \times 2 = \underline{8}$
$4 \times 4 = \underline{16}$	$5 \times 4 = \underline{20}$	$5 \times 3 = \underline{15}$

$$\begin{array}{rcl} 5 \times 2 & = & 10 \\ 2 \times 3 & = & 6 \\ 3 \times 5 & = & 15 \\ 4 \times 5 & = & 20 \\ 5 \times 4 & = & 20 \\ 5 \times 5 & = & 25 \end{array}$$

$$\begin{array}{rcl} 2 \times 4 & = & 8 \\ 4 \times 2 & = & 8 \end{array}$$

$$\begin{array}{rcl} 2 \times 5 & = & 10 \\ 3 \times 8 & = & 24 \\ 5 \times 6 & = & 30 \\ 2 \times 9 & = & 18 \\ 4 \times 6 & = & 24 \\ 5 \times 8 & = & 40 \end{array}$$

## 2. Fill ups :

$$\begin{array}{rcl} 10 \times 5 & = & 50 \\ 11 \times 3 & = & 33 \\ 10 \times 2 & = & 20 \\ 11 \times 5 & = & 55 \\ 10 \times 4 & = & 40 \\ 11 \times 6 & = & 66 \end{array}$$

$$\begin{array}{rcl} 5 \times 10 & = & 50 \\ 10 \times 5 & = & 50 \end{array}$$

$$\begin{array}{rcl} 2 \times 10 & = & 20 \\ 10 \times 2 & = & 20 \end{array}$$

$$\begin{array}{rcl} 10 \times 7 & = & 70 \\ 10 \times 10 & = & 100 \\ 11 \times 8 & = & 88 \\ 10 \times 9 & = & 90 \\ 11 \times 4 & = & 44 \\ 10 \times 3 & = & 30 \end{array}$$

## 3. Use tables and multiply :



3 fans, each has 3 blades  
 $3 \times 3 = 9$  blades in all.



4 parrots, each has 2 wings  
 $4 \times 2 = 8$  wings in all.



3 plates, each has 2 pastries  
 $3 \times 2 = 6$  pastries in all.



2 cars, each has 4 wheels  
 $2 \times 4 = 8$  wheels in all.

## 4. Find :



Number of bananas  
 $2 \times 4 = 8$  bananas



Number of leaves  
 $3 \times 3 = 9$  leaves



Number of sweets  
 $2 \times 5 = 10$  sweets





Number of legs  
 $3 \times 4 = 12$  legs





### Creative Corner

Creativity, Integrate with Arts, Problem-Solving

- Multiply the number of sides in the shapes given below. Then make a shape which has the exact number of sides as the product obtained. Also colour that shape.

(a)   =  $\boxed{3} \times \boxed{4} = \boxed{12}$

Do yourself

(b)   =  $\boxed{3} \times \boxed{3} = \boxed{9}$

Do yourself

(c)   =  $\boxed{4} \times \boxed{4} = \boxed{16}$

Do yourself

### Apply Your Learning

Observation, Discussion-based Learning, Enquiry-based Learning

Shikha has invited her 5 friends for a get together.

Number of Sandwich for each friend = 1

Total Sandwich =  $1 \times 5 = 5$

Number of fruits for each friend = 4

Total fruits =  $4 \times 5$

= 20

Number of muffins for each friend = 2

Total muffins =  $2 \times 5 = 10$

### Think, Solve and Learn

Critical and Logical thinking, Problem-solving

Samar planted row of carrot this year = 5

Number of plant in each row = 9

Number of plants in 5 row =  $9 \times 5 = 45$

Number of plants in last year = 100

Samar planted more plants last year =  $100 - 45$

= 55 plants

	H	T	O
	①	⑨	⑩
	X	Ø	Ø
-		4	5
		5	5