

## Objectives

- To develop understanding of mathematics in children by interesting method.
- Do not take the children to the world of mathematics. But bring the mathematics in children's life.
- Understanding of counting, speaking, reading and writing the number upto 9.
- To enable the children to compare the digits.  
To enable the children to understand counting, backward counting of numbers upto 9 and word problems.  
To split a number into different pairs of numbers as addition and subtraction.

### Do you remember?

- |  |  |
|--|--|
| <ul style="list-style-type: none"><li>• How many bags do you have ?</li><li>• How many suns are there in the sky ?</li><li>• How many heads do you have ?</li><li>• How many hands do you have ?</li><li>• How many eyes do you have ?</li><li>• How many bulbs are there in your classroom ?</li><li>• How many fans are there in your classroom ?</li><li>• How many windows are there in your classroom ?</li></ul> | <ul style="list-style-type: none"><li>• How many rooms are there in your school ?</li><li>• How many brothers and sisters are you all ?</li><li>• How many members are there in your family ?</li><li>• How many legs does a chair have ?</li><li>• How many fingers do you have on each hand ?</li><li>• How many fingers do you have on both hands ?</li><li>• How many trees are there in your school ?</li></ul> |
|--|--|



## Activity

One Two

Buckle my shoes



Three Four

Shut the door

Five Six

Pick up the sticks



Seven Eight

Lay them straight

Nine Ten

A big fat hen



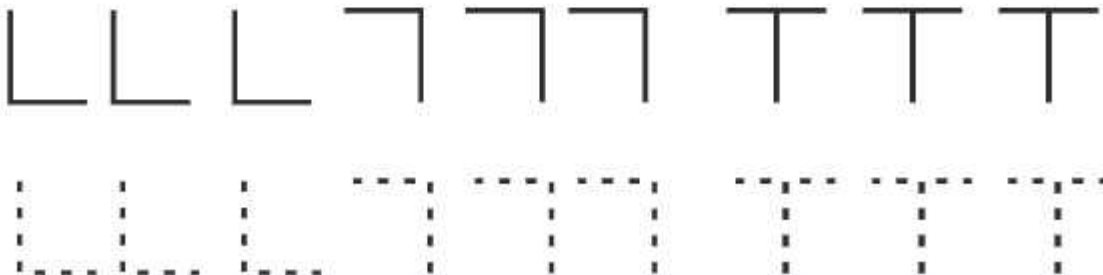
Draw the raindrops, one by one  
starting from the top till the bottom.



Make a paper boat and try to float it on water,  
Draw water beneath the boat.



Let's join water and rain drops.



**Note**

Before telling the story while teaching numbers, the teacher will draw rain-drops and water flowing under the boat.



Make tail of the cat with the help of your pencil using circular motion.



Help the crow to reach its nest.



**Note**

The teachers will encourage the students to complete the page with both the activities by using story-telling method and make students do this on their note-books.





**One One One**  
**Our nose is One**



**Colour it**



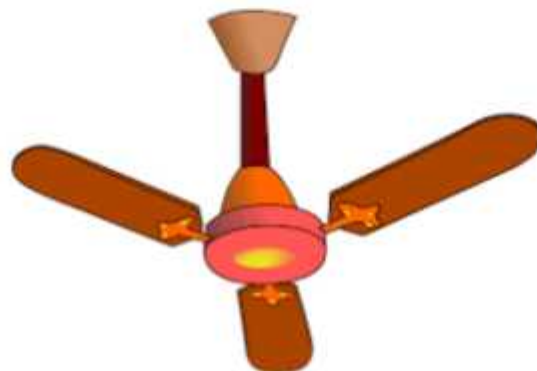
**Two Two Two**  
**Our eyes are two**



**Colour it**



**Three Three Three**  
**Blades of fan are three**



**Colour it**

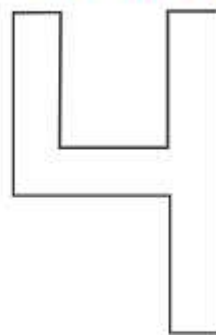




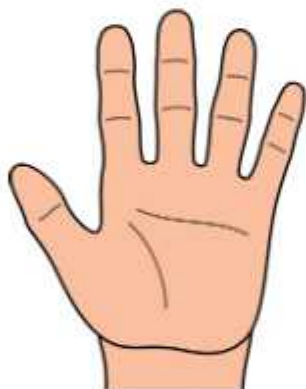
**Four Four Four**  
**Legs of chair are four**



**Colour it**



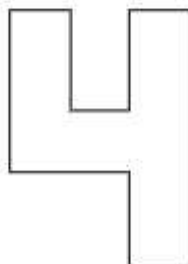
**Five Five Five**  
**Fingers of our hand are five**



**Colour it**



**Colour these**



## Oral knowledge of numbers 1 to 5



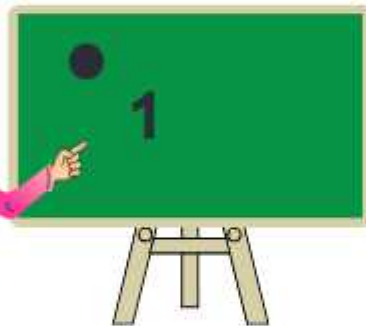
Count the fingers of your one hand.

How many fingers do you have on each hand ?



Let us learn counting with other objects.

What is this ?



Anveet

5



Anveet



Which digit is there on this card ?

1



Aslam

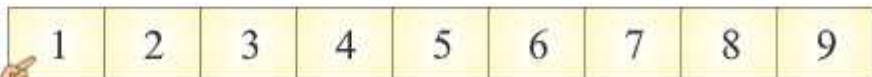
1



Chintu



Show 1 on the number strip



**Note**

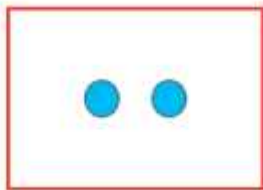
The teacher will tell about numbers with the help of fingers, solid objects, maan cards and number strip.



## Counting and recognizing numbers 1 to 5



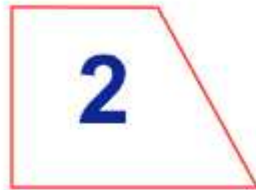
With fingers



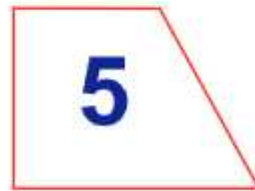
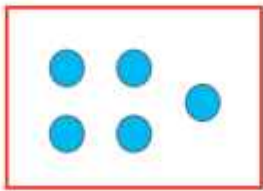
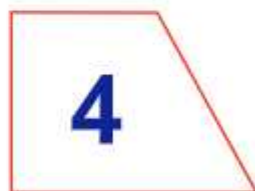
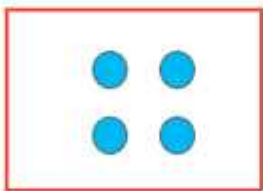
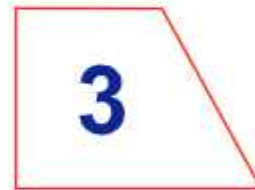
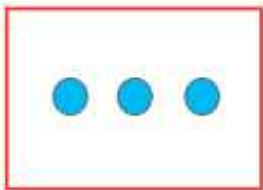
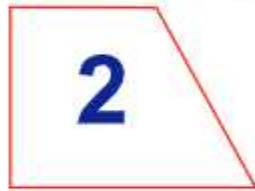
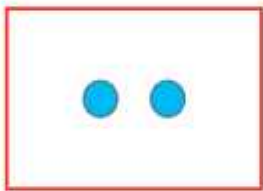
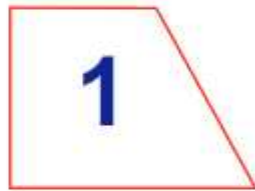
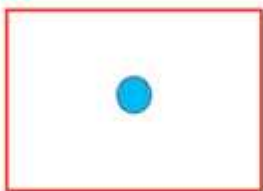
With dots



With objects



With man cards



**Note**

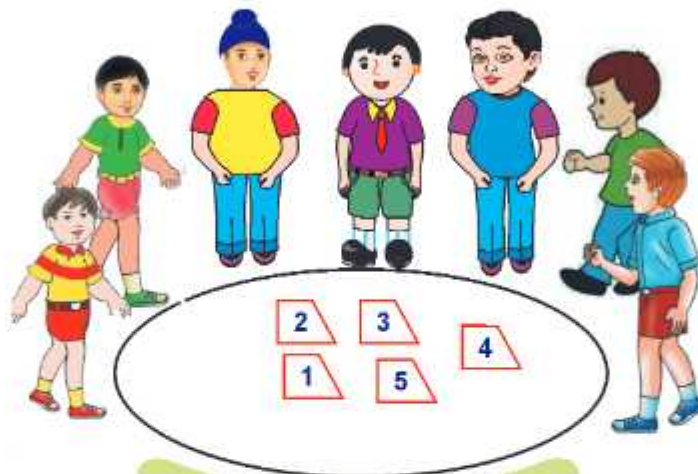
The teacher will tell the students to count different things using dots and fingers of their hands.



Take a jump



Take a jump and bring the card



Stand in order  
according to numbers



### Note

The teacher will help the students to prepare maan cards. Give students different objects to count. It should be noticed by the teacher that counting and speaking of a number should be same. When a student speaks any of the numbers, same maan card should be shown at that time. Make a number strip on the floor and ask the students to jump on the given number. Make a circle of the students and ask them to bring a maan card from the cards that are lying inside the circle.



Let's do

Count the balloons, recognize and match with the numbers



5

3

1

2

4

Draw objects of your choice

4	3	5	1	2

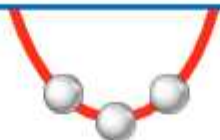


**Note**

The teacher will motivate the students to draw the objects, of their own choice.



Put bead/beads in the thread according to the dots shown on the face of the dice and match them with the digits.



5



3



1



2



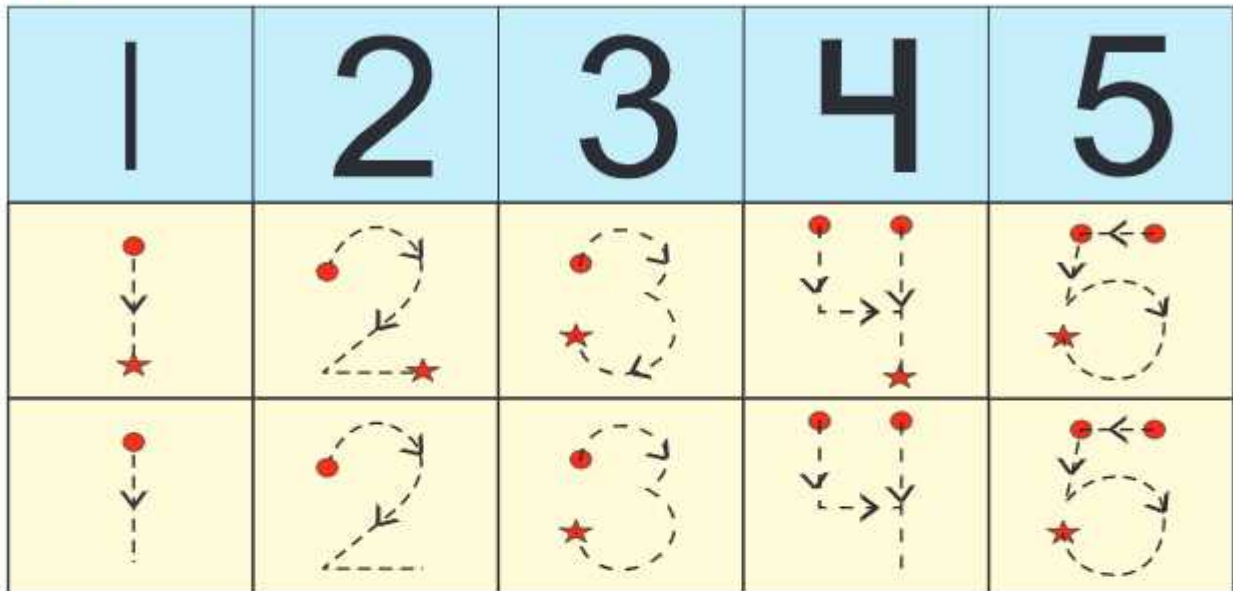
4

Draw flowers in the pots as described :

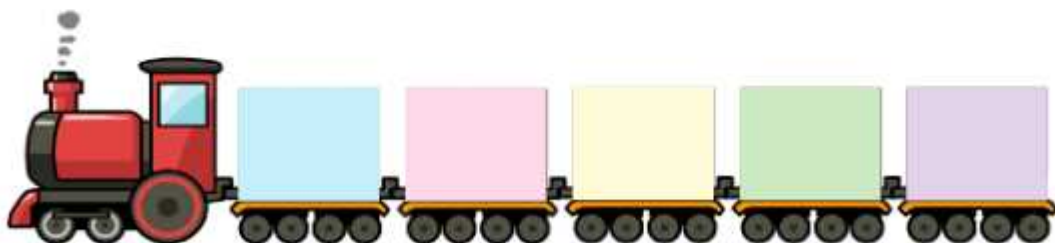
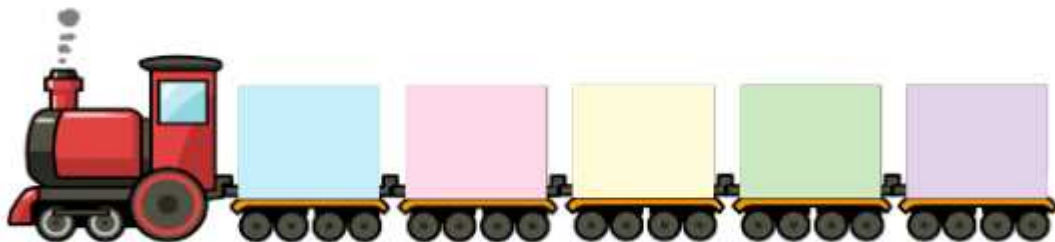




Start from the dot and move towards the star to get beautiful numbers.



Write number 1 to 5



The teacher will tell the students to do practice of these numbers in their note book.



Count the sea creatures and write the number in the mentioned box.







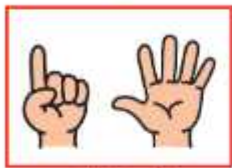




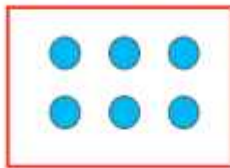


## Let's learn

### Oral knowledge of number 6 to 9



With fingers



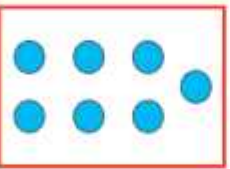
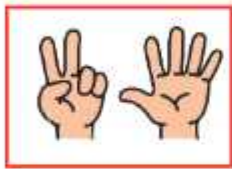
With dots



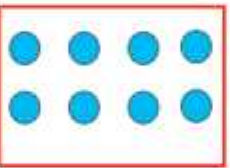
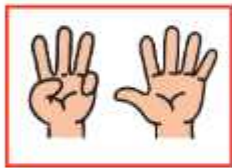
With objects

6

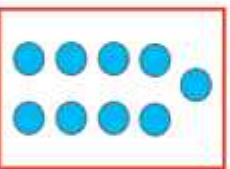
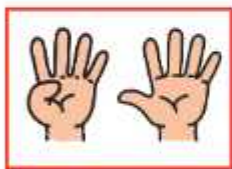
With maan cards



7

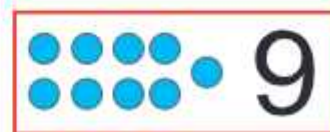
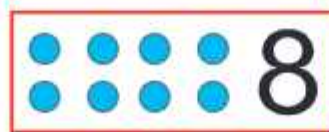
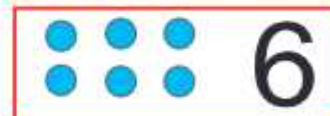


8



9

### Recognition of numbers 1 to 9



#### Note

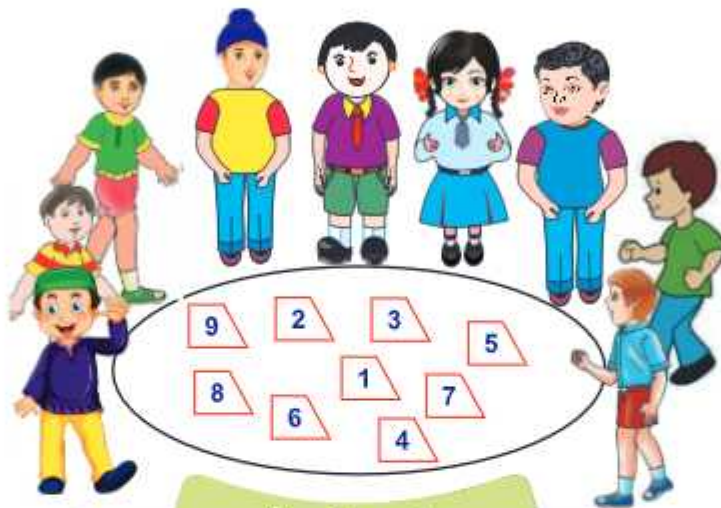
When the student starts counting objects from 1 to 5 and able to recognise and write the numbers from 1-5, teach them to count the numbers from 6 to 9 with the help of objects, dot cards. They can also use maan cards and number line while counting.



Take a Jump



Take a jump and bring the card



Stand in order according to numbers



Note

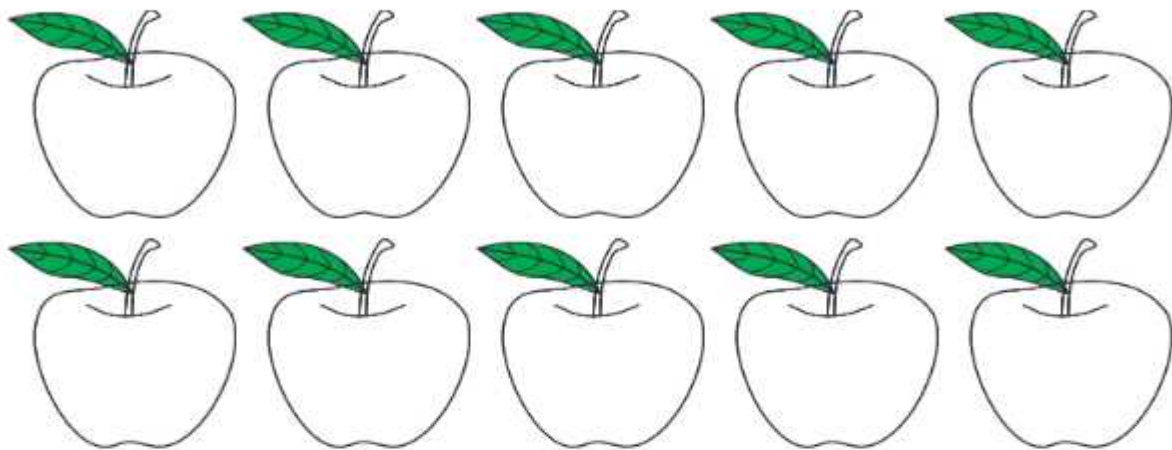
- The teacher will speak any of the number from 1 to 9 and ask a student to jump on that number.
- Make a circle of the students and ask them to bring a maan card 1 to 9 those are lying inside the circle.
- The teacher will distribute maan cards to the students from 1 to 9 and ask them to stand in order according to the maan card.



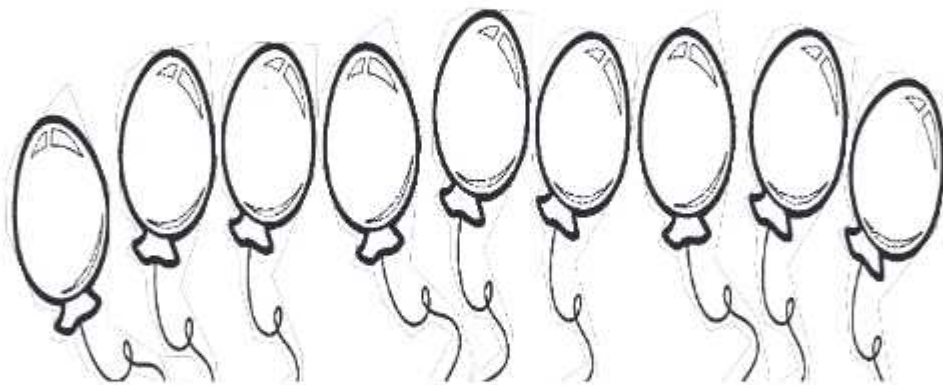


Let's do

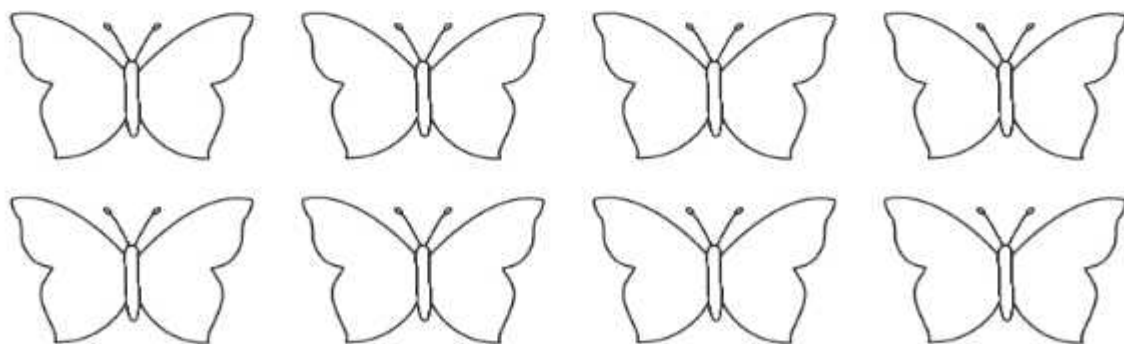
1. Fill colour in 6 apples :



2. Fill colour in 8 balloons :



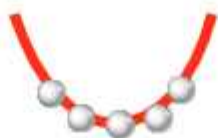
3. Fill colour in 7 butterflies :



Note

The teacher will tell the students to pick things from a box containing different things like 8 leaves, 6 ice-cream sticks, 4 beads etc. from the

4. Put beads in the thread according to dots are shown on the face of dice and match them with the digits.



5



6



4



2



3



9



8

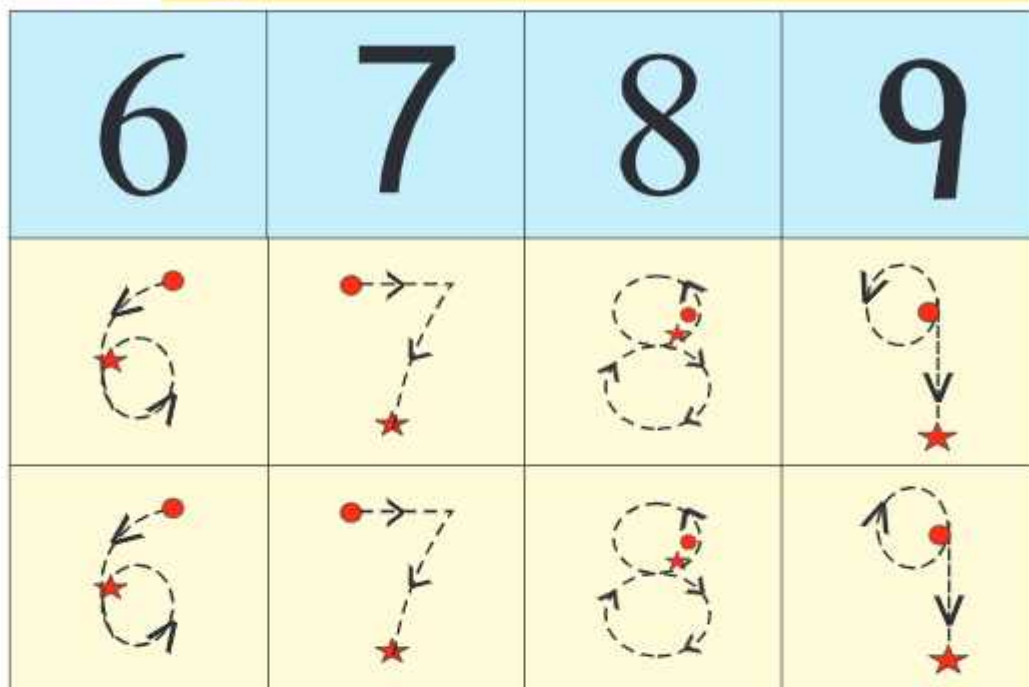


7

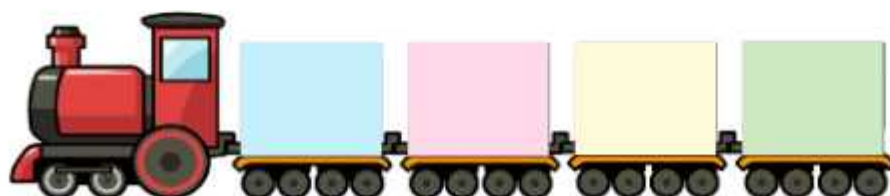
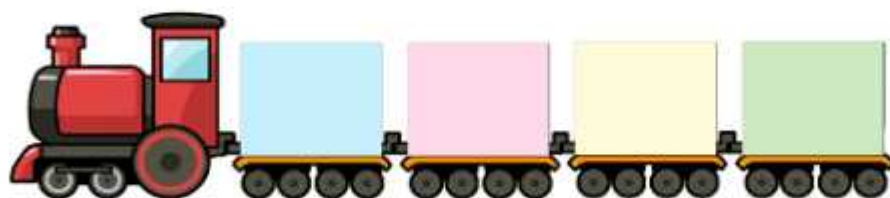




Start from the dot and move towards the star to get beautiful numbers.

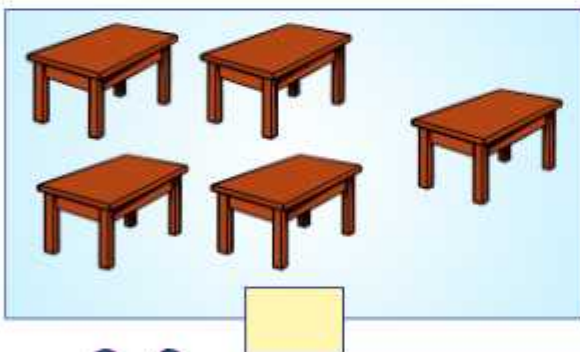
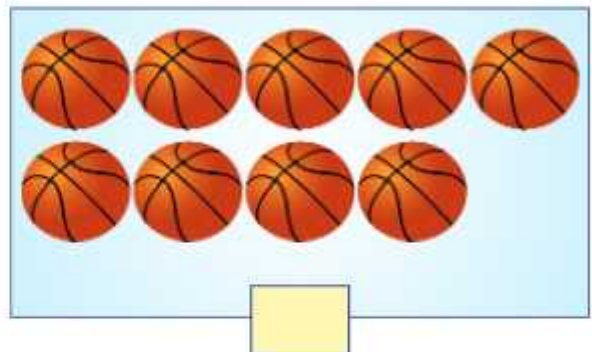
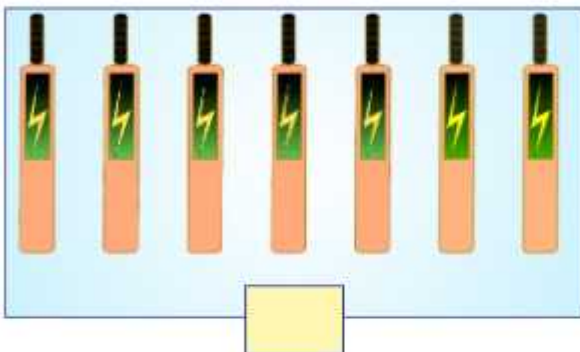
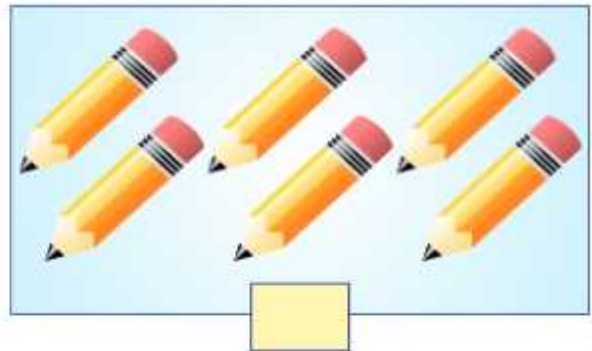
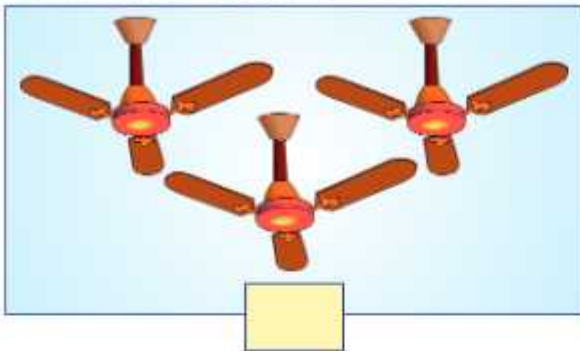


Write numbers 6 to 9 :

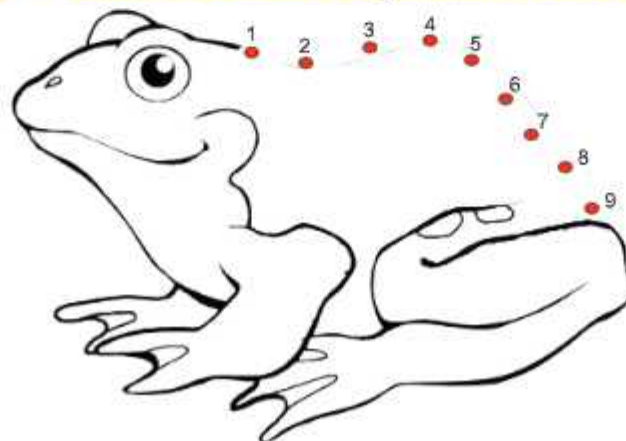


The teacher will tell the students to do practice of these numbers in their note book.

Count and Write :



Join the numbers in serial order and decorate the picture with colours.



## Activity

### Just before, Just after



Who is standing just after Simran ?

Kuljeet



Who is standing just before Pinki ?

Kuljeet



Who is standing between  
Simran and Pinki

Kuljeet



Look at the number strip

What comes after 7 ?

6



What comes after 8 ?

9



Very good



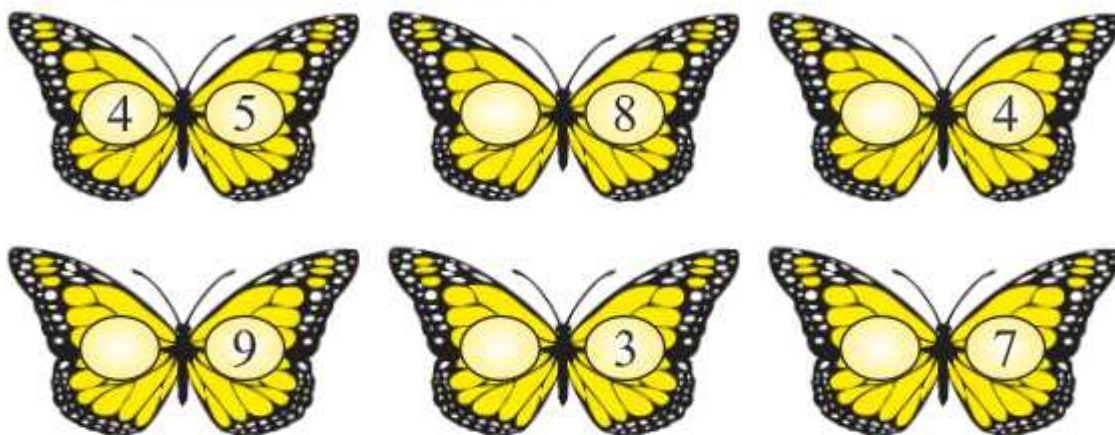
What comes before, what comes after,  
what comes in between.  
let us try to understand it  
and know about  
forward backward counting.



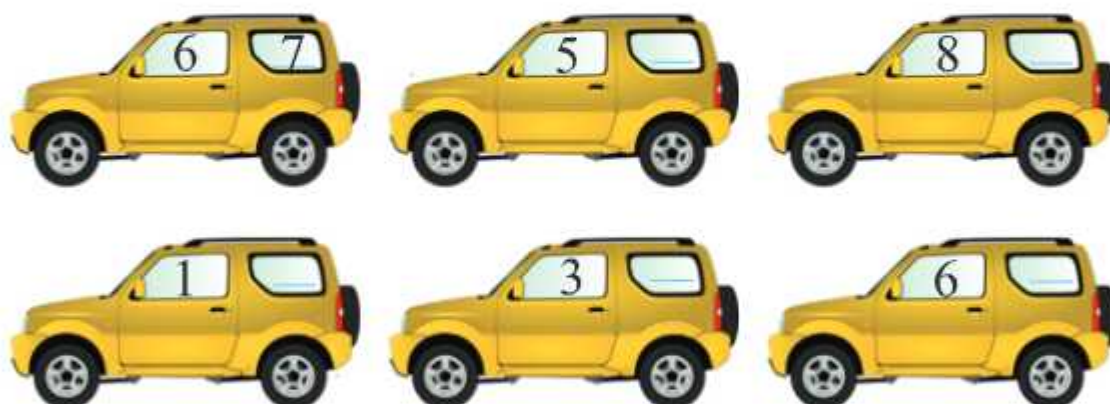


Let's do

1. What will come just before ?



2. What will come just after ?



3. What will come in between ?





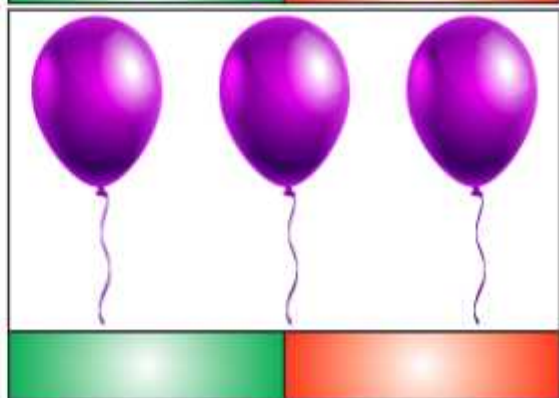
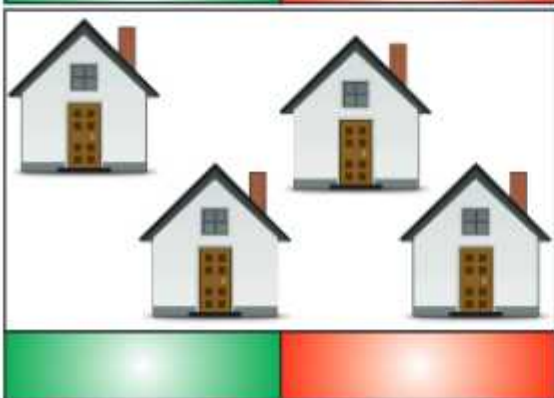
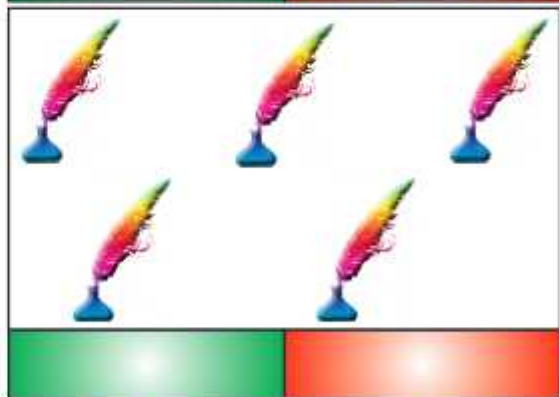
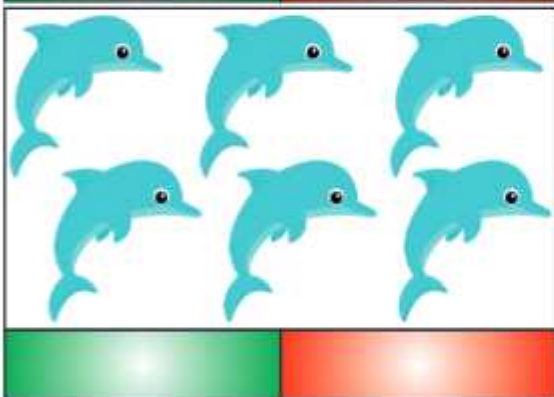
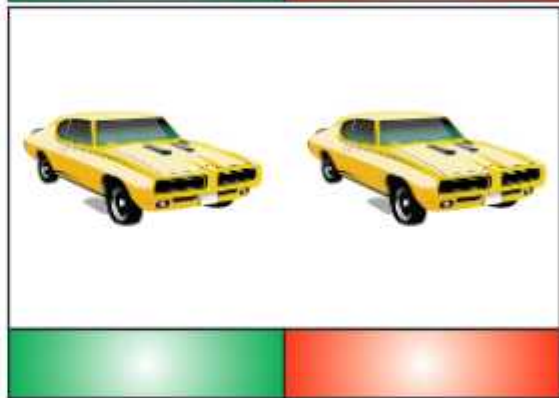
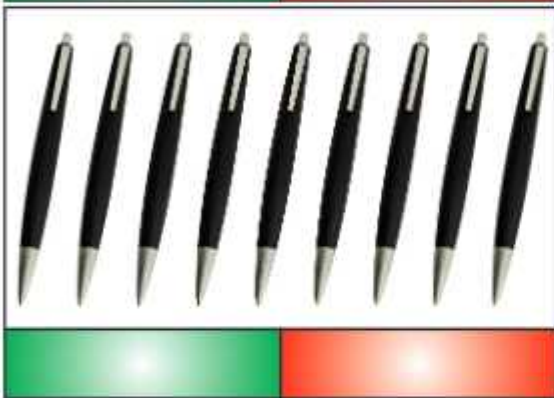
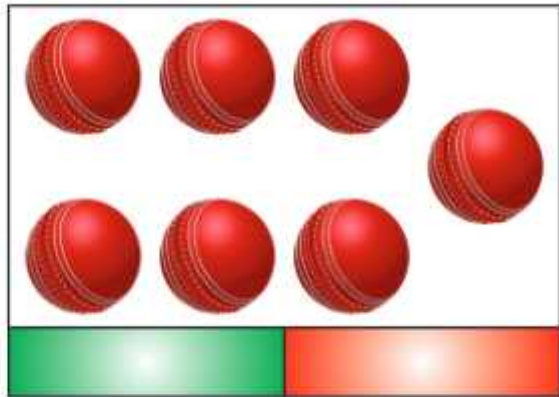
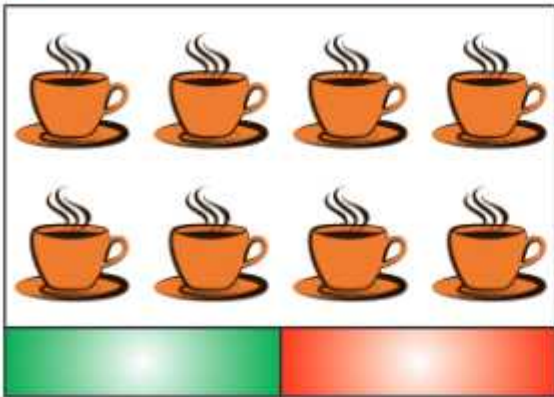
4. Count the objects and write the number in red box and write its next number in the green box.



**Note**

The teacher will explain to the students that they should count the objects and write numbers in the red box and write its next number in

5. Count the objects and write the number in red box and write its previous number in green box.



## Comparison of numbers

The teacher will take some chalks in his/her hand and will ask the students to estimate the number of chalks he/she will ask the students to tell which hand has more number of chalks and which has less number of chalks.



Let us see that which hand has more number of chalks.



### Note

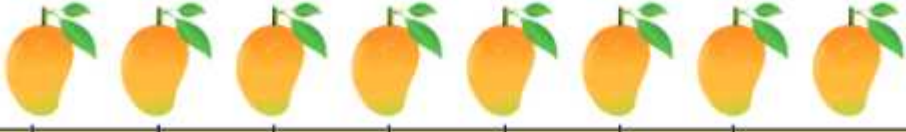

The teachers will ask the students to do the activity given above with different objects and different quantity. The teacher will tell the students about greater or smaller numbers on blackboard.





After matching each one of the things in the boxes below, find more or less.

Put a (✓) on the box having more and put a (×) on the box having less.

1.



	<input checked="" type="checkbox"/>
	<input type="checkbox"/>

2.

	<input type="checkbox"/>
	<input checked="" type="checkbox"/>



1.

	<input type="checkbox"/>
	<input type="checkbox"/>

2.




	<input type="checkbox"/>
	<input type="checkbox"/>



## More/Less objects in the groups

### Let's learn

Tick (✓) the things which are less than 5 in number.

	
	
	✓



### Let's do

1.

Tick (✓) the things which are more than 5 in number.









2.

Understand the greater and smaller number and encircle the greater number









8	3	2	5	4	3
					
8	7	9	6	3	8
					

3.

Understand the smaller and the greater number and encircle the smaller number



9	6	3	5	9	2
					
7	5	4	6	2	27
					



**Note**

The teacher will make his students understand that they should respond more or less objects by counting and then the students will encircle the greater or smaller numbers.

Let's learn

Equal

Five fingers of left hand



Five fingers of right hand



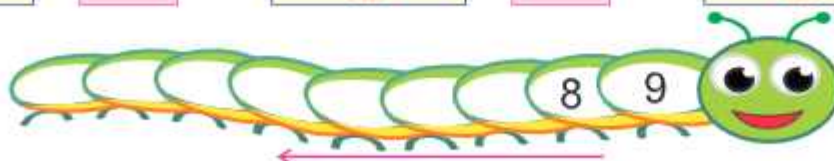
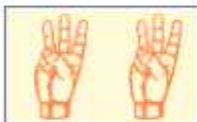
It is neither more or less

These are equal



Let's do

Count and write backward counting from 9 to 1 :



Note

The teacher will explain the concept of backward counting by moving backward while counting with his foot steps. Then the teacher will impart the concept of backward white counting with the help of fingers/objects by subtracting.





Let's do



Join the points by backward counting and help Avneet to reach his uncle's house

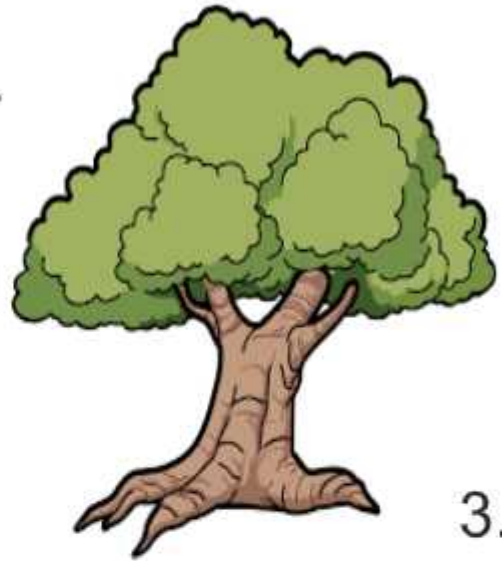


Avneet Singh

9.

7.

5.



3.

8.

6.



4.

2.



Note

To reach at uncle's house touch all the numbers through backward counting written here and speak them loudly. The condition is that these numbers should be joined by lines and care must be taken that lines should not cut or intersect each other.



## Activity

### Knowledge of zero

How many pencils do I have ?

After keeping one pencil aside.

Now how many pencils do I have ?

After keeping one pencil aside

Now how many pencil do I have ?

In number, if we have nothing then it means we write it as '0'

2 pencils

1 pencil

Nothing

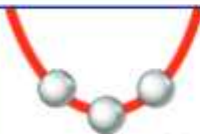


How many books are on table ?









.....beads



.....beads



..... flowers



.....flowers



.....mangoes



.....mangoes

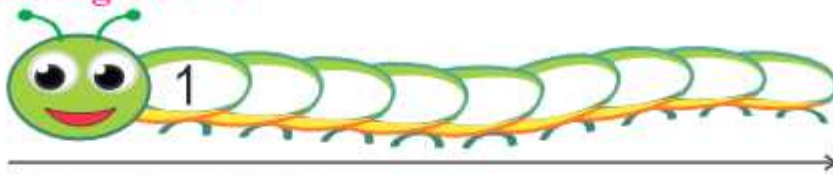


### Note

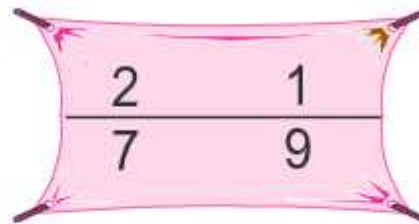
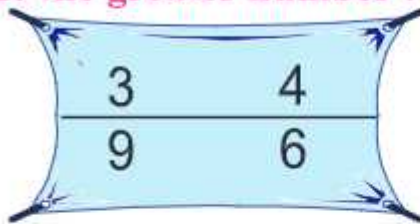
The teacher should explain the use of 'Zero' with the help of objects present in the school.

# Worksheet

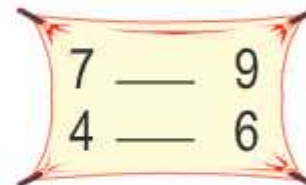
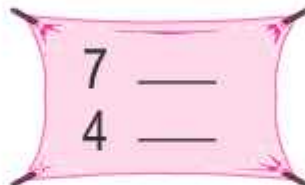
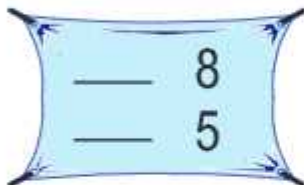
1. Write counting 1 to 9 :



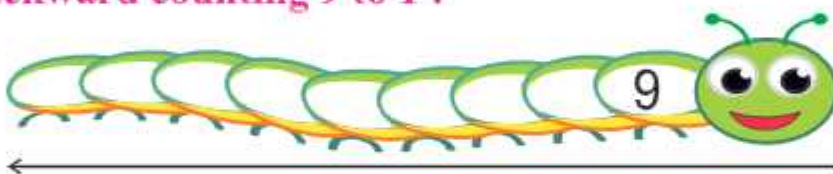
2. Encircle the greater number :



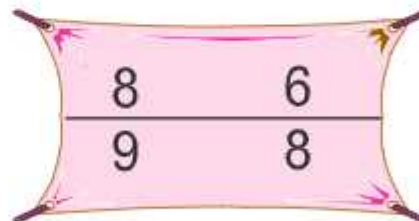
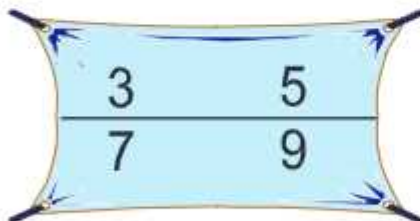
3. Fill in the blanks :



4. Write backward counting 9 to 1 :



5. Encircle the smaller number :



6. Count and write :



## Jorh-Torh of Digits

### Activity

#### One more

One green parrot suffering from flu  
other pays a visit, now they are two



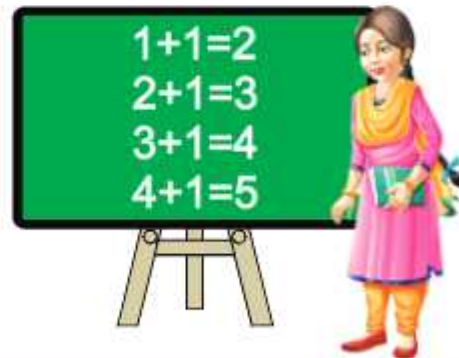
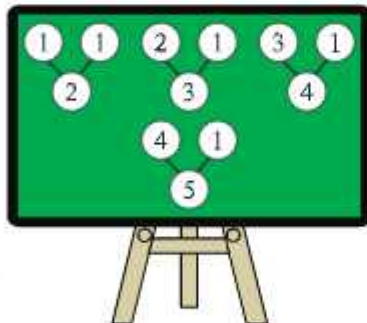
Two green parrots now sitting on the tree  
another came to join them, now they are three



Three green parrots want a more  
another came to give them, now they are four



Four green parrots looking for beehive  
One came to tell them, now they are five



#### Note

The teacher will do this activity with the student's participation so that they can understand the concept of one more. By reciting the above poem, the concept of one digit addition is imparted to students.



## Activity

### One less



Five pigeons on a tree want to eat more  
One flew to eat something, rest left are four



Four pigeons are on a tree want to eat pea  
One flew to eat it, rest left are three



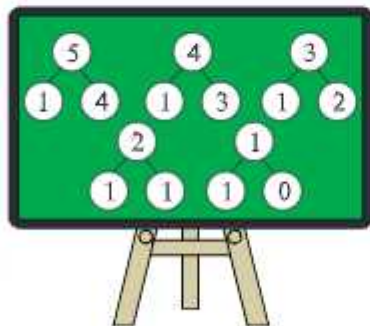
Three pigeons on a tree eating in queue  
One flew to eat something, rest left are two



Two pigeons on a tree want to eat bun  
One flew to eat it, rest left is one



One last pigeon now dancing like a hero  
It also flew to eat something, rest left is zero



The teacher will do this activity with the student's participation so that they can understand the concept of one less. By reciting the above poem, the concept of one digit subtraction is imparted to students.

Using the blackboard, the teacher will explain the concept of subtraction and also uses the sign of subtraction '-'

## Activity

### Jorh-Torh upto 5 with fingers :



Mam, I had one pencils  
My mother gave me one more.  
Now I have 2 pencils.



2 raised

3 folded

Yes, now tell me how  
many fingers are raised  
and how many fingers are folded.

Good, Let's count by  
folding the fingers.



Count and write the fingers of your hand as shown by folding and then by raising and folding fingers.



Raised  Folded



Raised  Folded



Raised  Folded



Raised  Folded



Raised  Folded



Raised  Folded



### Note

The teacher will raise his fingers one by one and then ask for counting of fingers in raising position and folding position. Repeat this activity many times so that the students are able to do jorh-torh numbers upto 5.

## Activity

**The concept of Jorh-Torh (add-split) with the help of sliding card :**



How many dots are on the card ?



Now, how many dots are there ?



Mam, 5



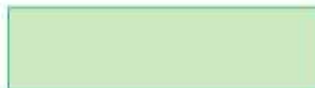
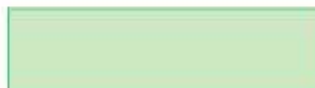
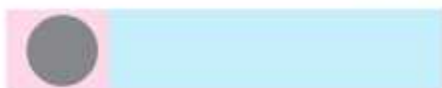
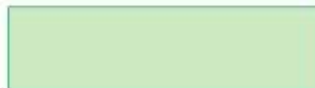
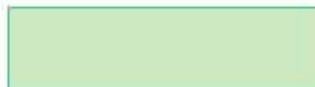
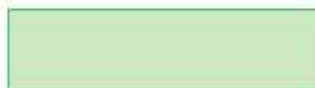
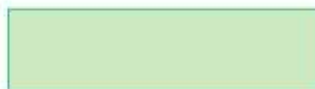
Mam, 3



Let's do

Under the card

Outside the card



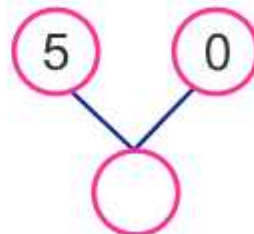
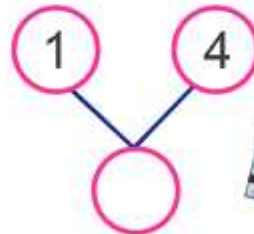
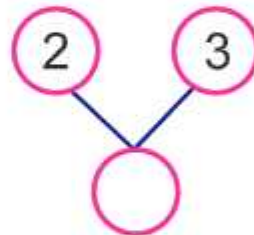
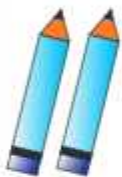
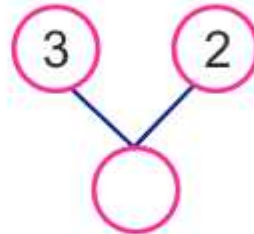
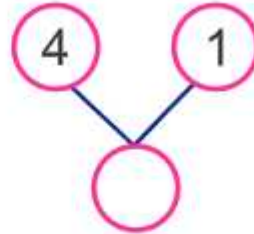
**Note**

Sliding cards are available at the end of the book. The teachers should cut these cards and ask the students for addition subtraction. To prepare sliding card and blank sliding card by using chart sheet as given in last pages. The teacher should use it for several days. The teacher will also ask students about the dots outside and below the slides.



## Practical Activity

Jorh-Torh of 5 with solid objects :

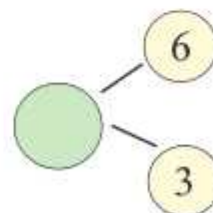
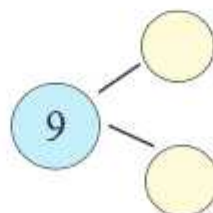
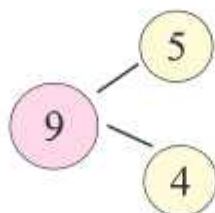
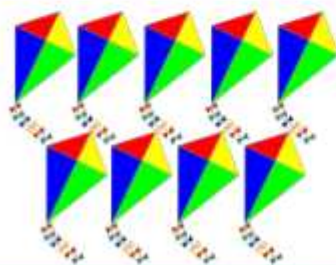
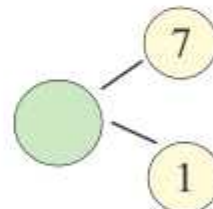
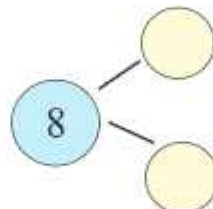
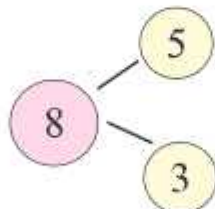
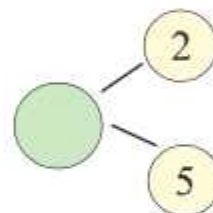
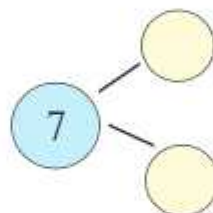
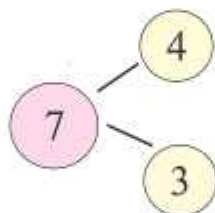
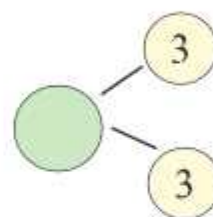
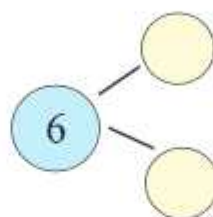
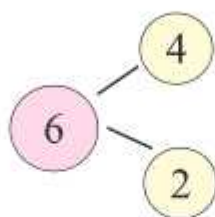
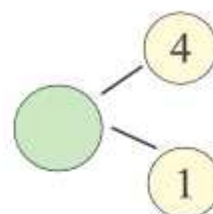
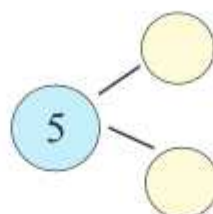
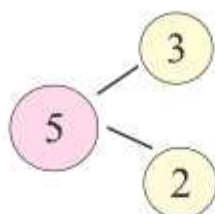


**Note**

The teachers will show 5 solid objects to the students by dividing them in both hands and will ask the students to do the same. They will also write it on the blackboard.



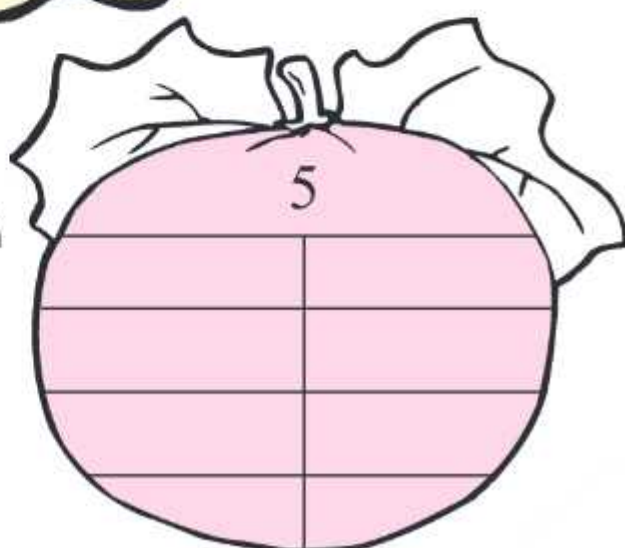
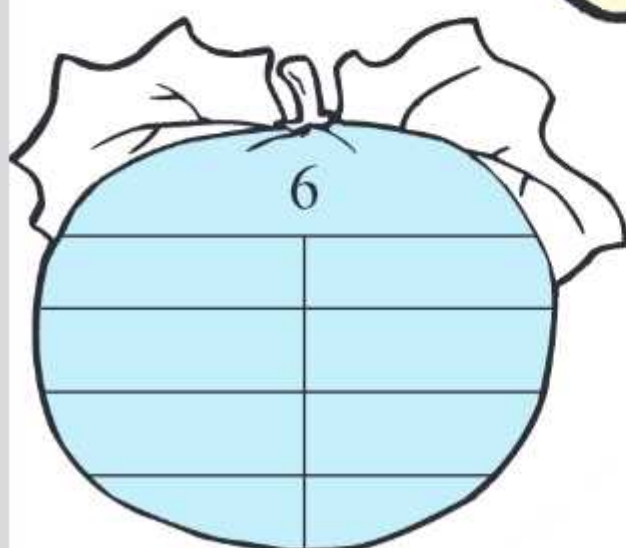
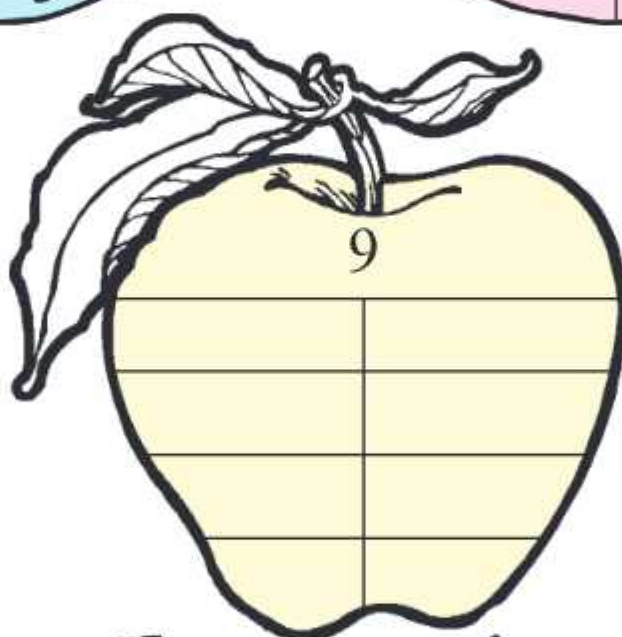
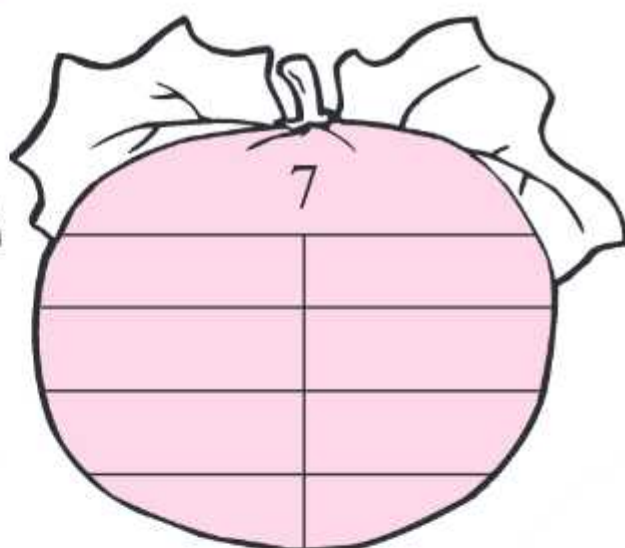
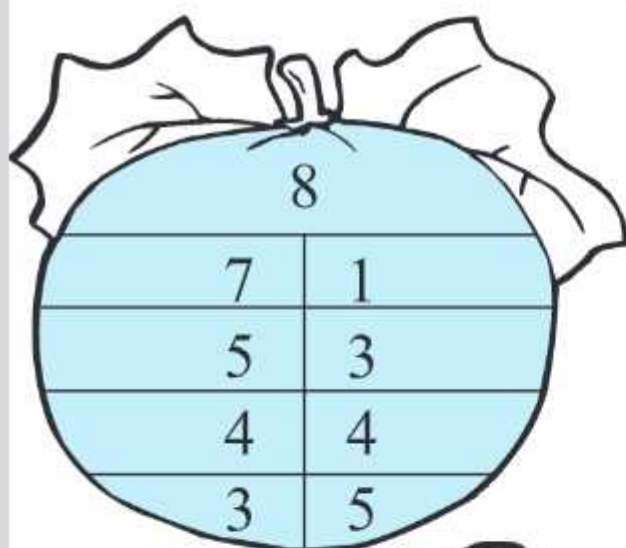
## Jorh-Torh of 5 to 9



### Note

The teacher will give solid objects like pencils, sticks etc. to the children ask them to do jorh-torh of the numbers 5 to 9.

Write the numbers in different ways.







Let us understand, when we add or take out some pencils from the group of pencils, what will happen ?

1. Harjot has one pencil. Baljeet gave him one pencil more. How many pencils Harjot has now ?



$$1 + 1 = 2$$

2. Harjot has two pencils. He got two more, then how many pencils he has now ?



$$2 + 2 = 4$$

3. Harjot has 4 pencils. He gave two pencils to Baljeet. How many pencils Harjot has now?



$$4 - 2 = 2$$

4. Baljit had 2 pencils. Lucky gave him 2 more pencils and Harjot gave 1 more pencil to Baljit. How many pencils does Baljit have now?



2



2



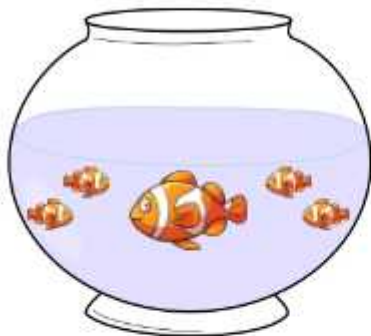
1



5



1. There were 5 fish in water. Two more fish are added. Now how many fish are in water ?



Fish



Fish

2. There were 5 birds on the tree. Four more birds came there. Now how many birds will be on the tree ?



Birds



Birds

3. Three children are playing on the slide. Two more children join them. How many children are there now ?



Children



Children

# Let's learn

## Addition to move forward by counting



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

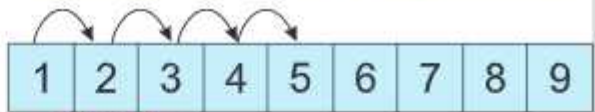
### Method-

Step 1. Start with jump from number 1.

Step 2. Jump forward according to the numbers which we have to add.

Step 3. Now write the numbers by forward counting.

Step 4.  $1 + 4 = 5$



$$1 + 4$$



Let's do

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

$$1 + 4 = 5$$



$$\begin{array}{r} \square \\ + \square \\ \hline \end{array}$$

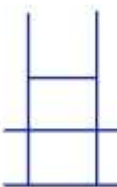


$$\begin{array}{r} \square \\ + \square \\ \hline \end{array}$$



$$\begin{array}{r} \square \\ + \square \\ \hline \end{array}$$

$$4 + 1 = \square$$



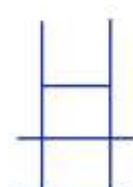
$$\square$$

$$1 + 3 = \square$$



$$\square$$

$$3 + 1 = \square$$



$$\square$$



Note

The teachers will ask the students to solve sums according to the given number by counting forward on number strip.



# Let's learn

## Subtraction- to move backward by counting



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



### Method-

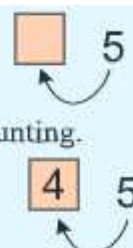
$$5 - 1$$

Step 1. Jump from the given number 5.

Step 2. Jump backward according to the number you want to subtract.

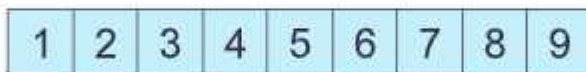
Step 3. Write the number by backward counting.

$$\text{Step 4. } 5 - 1 = 4$$



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

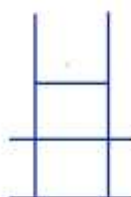
# Let's do



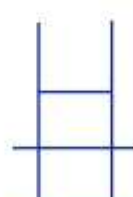
$$5 - 1 = 4$$



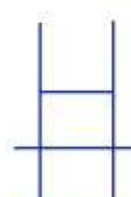
$$4 - 1 = \square$$



$$5 - 3 = \square$$



$$3 - 1 = \square$$



### Note

The teachers will ask the students to solve sums according to the given number by counting backward on the number strip.

## Let's learn

### Properties of Addition - Subtraction

## Let's do

By adding 1 we get the next (successor) number.

$1 + 1 = 2$

$8 + 1 = 9$

$5 + 1 = \boxed{\phantom{0}}$

$4 + 1 = \boxed{\phantom{0}}$

Addition of digits in any order, gives the same result.

$2 + 3 = \boxed{\phantom{0}} = 3 + 2$

$1 + 2 = \boxed{\phantom{0}} = 2 + 1$

$3 + 4 = \boxed{\phantom{0}} = 4 + 3$

When we add 0 in any number, we always get the same number.

$1 + 0 = \boxed{1}$

$8 + 0 = \boxed{8}$

$5 + 0 = \boxed{\phantom{0}}$

$4 + 0 = \boxed{\phantom{0}}$

When we subtract 1, from any number we get the previous (predecessor) number.

$2 - 1 = \boxed{1}$

$8 - 1 = \boxed{7}$

$5 - 1 = \boxed{\phantom{0}}$

$4 - 1 = \boxed{\phantom{0}}$

When we subtract two same numbers, we get 0.

$9 - 9 = \boxed{0}$

$8 - 8 = \boxed{0}$

$5 - 5 = \boxed{\phantom{0}}$

$4 - 4 = \boxed{\phantom{0}}$

When we subtract zero from any number, we get the same number.

$2 - 0 = \boxed{2}$

$8 - 0 = \boxed{8}$

$5 - 0 = \boxed{\phantom{0}}$

$3 - 0 = \boxed{\phantom{0}}$

If we add or subtract zero from a number.  
We get the same number.

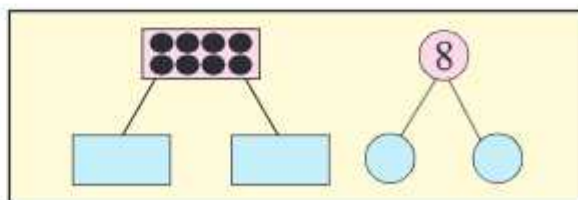
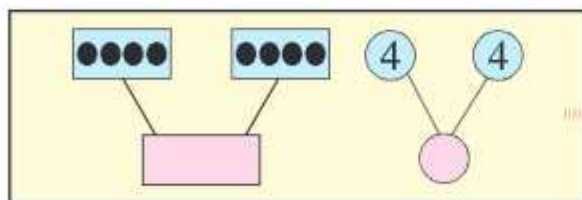
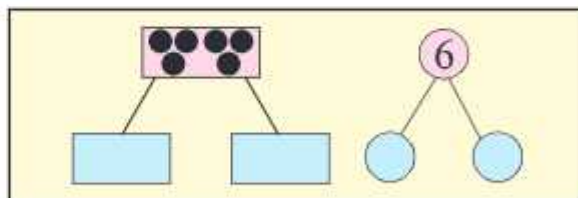
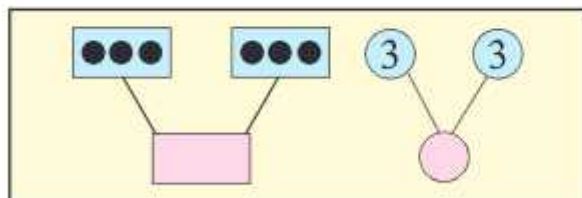
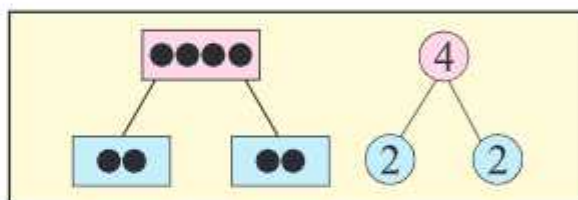
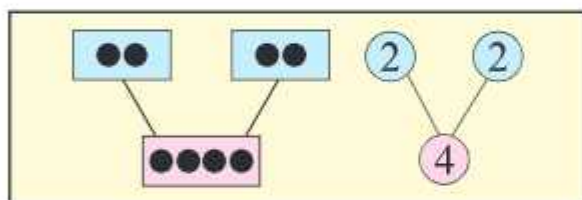
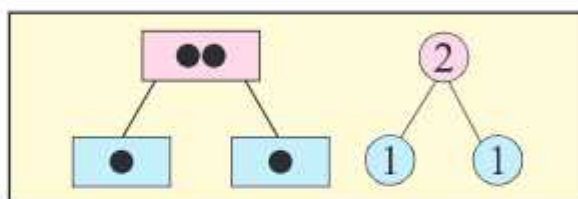
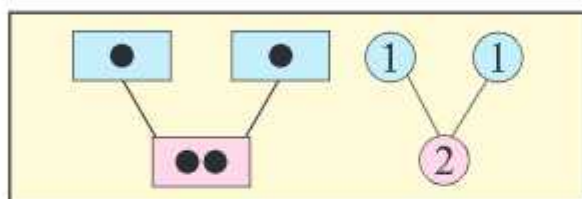


## Let's learn



As many eaten by Aman,  
same will be eaten by Raman.  
Tell how many will  
be taken by Daman.

Anything fetched by Daman,  
Divide in parts of two.  
Raman also gets equal parts,  
by making equal queue.



## Note

The teacher will make the students learn how to double any number and how to divide a number into two equal parts with the help of solid objects and a story.



## Magical Game

**Objective :** Recognition of numbers.

**Material :** Marker, Chart.

**Method :** 1. Write as demonstrate below.

2	9	5	7	7	8
3	6		8	4	9
	8	7	9		9
7		4	1	6	8
	9		8		8
5		3	6	9	5
9	8			9	9
4	7	5	8	3	7
				6	2

2. Ask the child to think of any number upto 9.
3. Ask the child to find in how many boxes can he find his number.
4. Then answer the question.
5. It is a magic for child.



### Note

Count the boxes in which number comes. The number of boxes will be the answer.

## Worksheet

### 1. Add :

$3 + 2 =$

$5 + 0 =$

$2 + 1 + 2 =$

### 2. Subtract :

$5 - 2 =$

$5 - 0 =$

$3 - 1 =$

### 3. Encircle the correct answer :



+



=

6

7

8



-



=

4

2

3

### 4. Fill in the blanks :

$1 + \square = 5$

$\square + 2 = 3$

$1 + 2 + \square = 5$

$4 - \square = 3$

$3 - 1 = \square$

$5 - \square = 4$

### 5. Think and do :

$5 + 1 =$

$6 + 2 =$

$6 - 1 =$

$6 - 5 =$

$8 - 2 =$

$8 - 6 =$



**Note**

The teacher will assist the students to practice the above given Addition-subtraction sums.

### Things to Remember

- Smallest number of 1 digit = 1
- Greatest number of 1 digit = 9
- Sign of Addition '+'
- Sign of Subtraction '-'

### We have learnt

Counting of numbers 1 to 9  
(With solid objects and with fingers)



Reading, Counting,  
Writing of numbers, forward/backward  
counting, comparison of numbers  
(Using fingers, sliding card,  
solid objects and maan card)



Forward Counting, Backward  
Counting and in between of numbers  
(By activities)



Comparison  
(With solid objects)



Addition - Subtraction upto 9



Addition - Subtraction of 1 digit numbers

(Estimate, oral type, word type problems using a number strip.)