



**CLICK HERE TO ACTIVATE**

**LESSON**  
PART 1



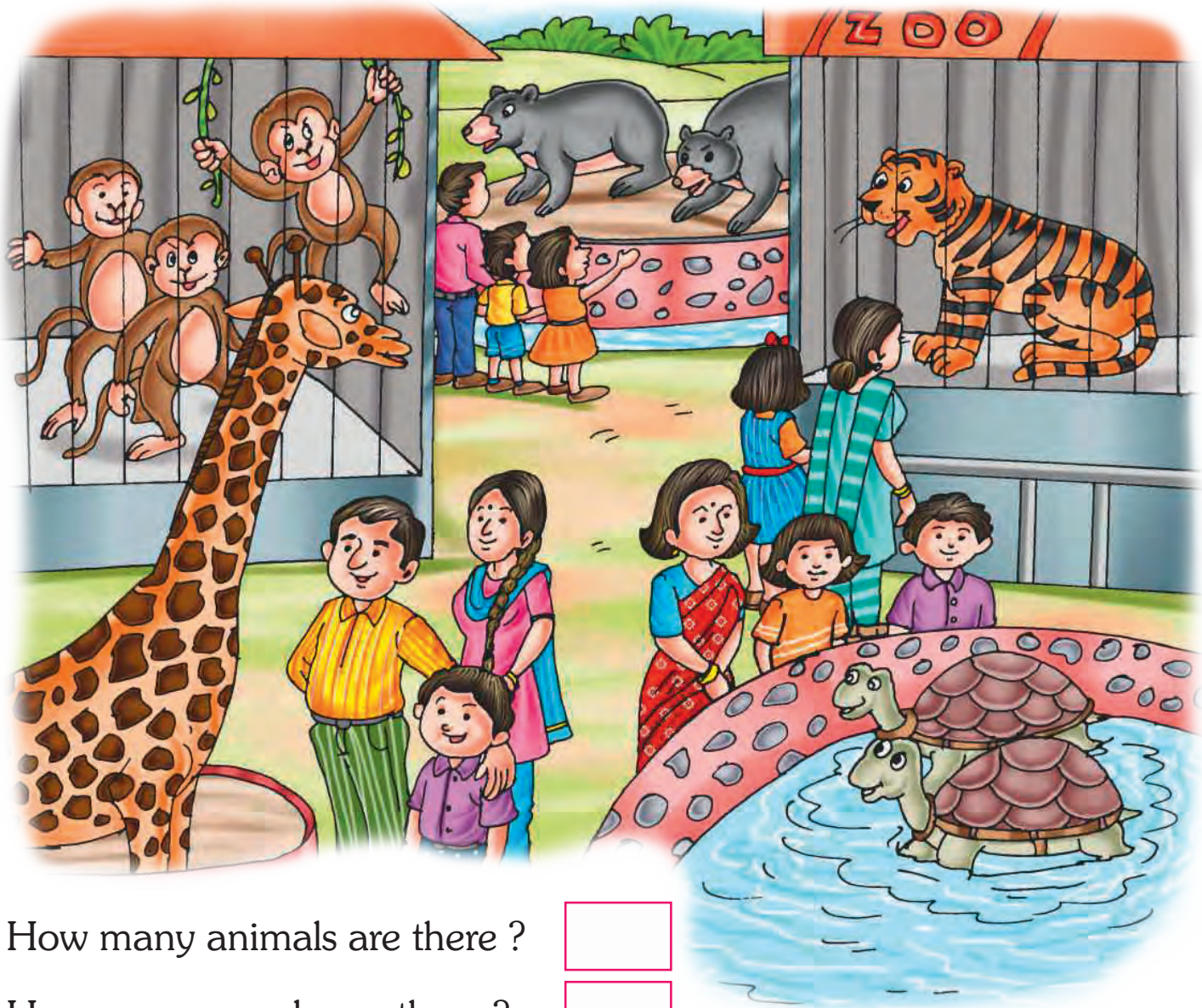
# 3

+ -  $\times$   $\div$  + -  $\times$   $\div$  + -  $\times$   $\div$  + -  $\times$   $\div$

## ADDITION UPTO 20

**READY ... STEADY**

Look at the animals in the zoo and write the total number.

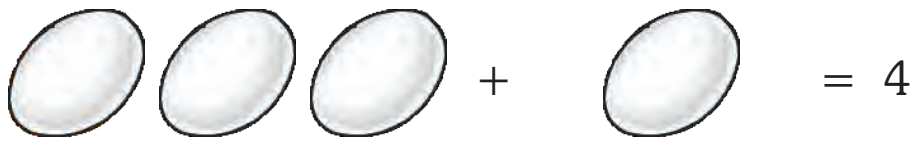


How many animals are there ?

How many people are there ?

'Addition' means putting together of two or more objects and finding the total. '+' sign is used for addition. '+' sign is read as 'plus'.

The answer we get when we put the numbers together is called the *total* or *sum*.



When we put 3 and 1 together, we get 4.

In other words, when we add 3 and 1, we get 4 as the *sum*.

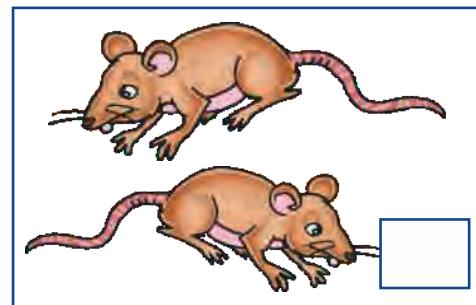
We write this as  $3 + 1 = 4$ .

We read this as : 3 plus 1 equals 4

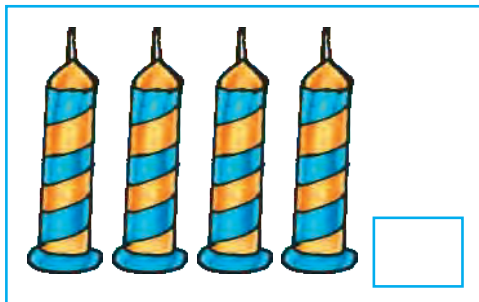
### Count and add.



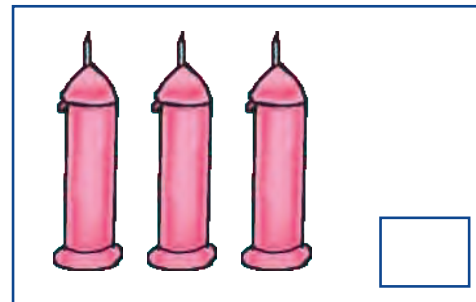
+



=



+



=



## MATHS LAB

**Objective :** To strengthen the concept of addition

**Materials Required :** 10 counters for each student, papers and pencils

**Procedure :** Make the students sit in a circle with 10 counters each with a paper and a pencil.

**Steps :**

1. Give an addition fact, say  $3 + 2$  to each student to perform.
2. Ask every student to pick up as many counters for the 2 numbers given to him/her and find out their total.
3. Ask them to write down the addition sentence on the paper.
4. Students may notice that both  $3 + 2$  and  $2 + 3$  have the same answer.

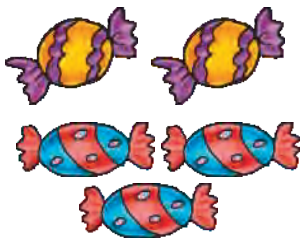


5. More such exercises should be given to the students to help them understand the concept.

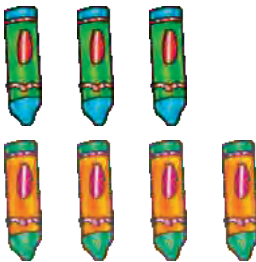



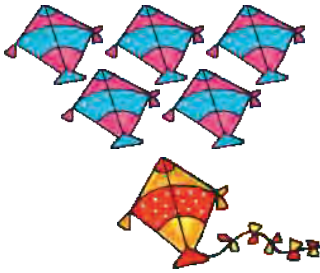


*[Note : At this point, it is important to tell the students that changing the order of the numbers will not change the answer.]*

# Count and add.

Example :


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

5

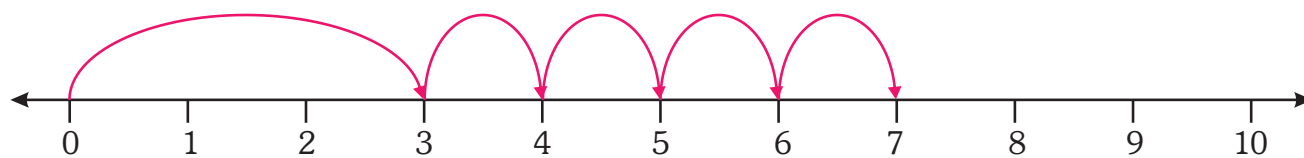

$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$

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

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

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

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

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

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

## ADDITION ON THE NUMBER LINE

**Add 3 and 4 on the number line.**

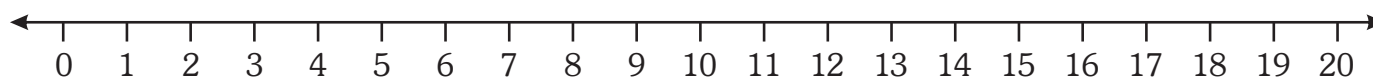
**Step 1 :** Start at 3.

**Step 2 :** Count forward 4 times. You reach 7.

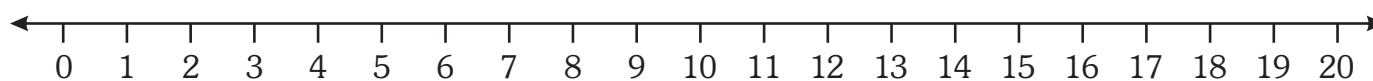


$$3 + 4 = 7$$

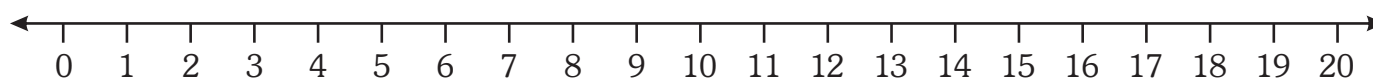
**Add on number line.**



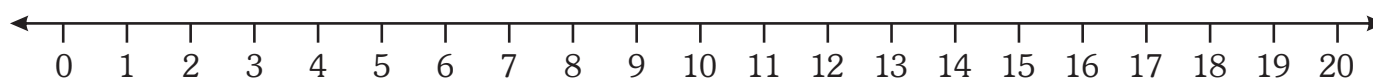
$$4 + 6 = \square$$



$$16 + 4 = \square$$



$$8 + 4 = \square$$



$$10 + 8 = \square$$

## ADDITION FACTS

### Addition Fact of 0

When we add 0 to number 9, the sum is the number itself.

$$1 + 0 = 1$$

$$2 + 0 = 2$$

$$3 + 0 = 3$$

### Addition Fact of 1

$$6 + 1 = 7$$

$$8 + 1 = 9$$

$$4 + 1 = 5$$

By adding 1 to a number, we get the successive number.

### Order in Addition

Two or more numbers can be added in any order, the sum remains the same.

$$5 + 2 = 7$$

$$2 + 5 = 7$$

### Write the missing numbers.

$$4 + \square = 4$$

$$8 + \square = 8$$

$$6 + \square = 6$$

$$8 + 1 = \square$$

$$9 + 1 = \square$$

$$6 + 1 = \square$$

$$2 + 7 = \square$$

$$1 + 8 = \square$$

$$6 + 3 = \square$$

$$7 + 2 = \square$$

$$8 + 1 = \square$$

$$3 + 6 = \square$$

## FUN ACTIVITY

Write the missing numbers.

$8 + \square = 9$

$1 + 8 = \square$

$3 + 6 = \square$

$5 + \square = 8$

$5 + \square = 5$

$6 + 1 = \square$

$8 + \square = 8$

$9 + 1 = \square$

$7 + 2 = \square$

**ADDITION**



## HORIZONTAL ADDITION

Numbers when arranged horizontally (one beside the other) and added, it is called *horizontal addition*.



3

+

2

=

5

**Add the following.**

$1 + 8 = \square$

$11 + 7 = \square$

$8 + 5 = \square$

$17 + 1 = \square$

$3 + 4 = \square$

$3 + 6 = \square$

$2 + 9 = \square$

$16 + 2 = \square$

$15 + 4 = \square$

$18 + 1 = \square$

$4 + 14 = \square$

$7 + 5 = \square$

$5 + 2 = \square$

$4 + 3 = \square$

$10 + 3 = \square$

$5 + 10 = \square$

$2 + 7 = \square$

$9 + 6 = \square$

$12 + 2 = \square$

$11 + 4 = \square$

$8 + 6 = \square$

$6 + 11 = \square$

$10 + 3 = \square$

$13 + 5 = \square$

$19 + 1 = \square$

$6 + 8 = \square$

$7 + 12 = \square$


$1 + 15 = \square$

$9 + 7 = \square$

$14 + 2 = \square$

## VERTICAL ADDITION

Numbers can be arranged vertically (one below the other) and added. This is called **vertical addition**.

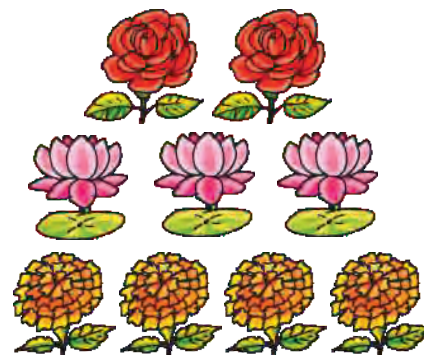
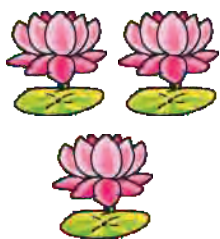

$$\begin{array}{r} 5 \\ + 3 \\ \hline 8 \end{array}$$
$$5 + 3 = 8$$

We see that the answer is the same for vertical as well as horizontal addition.

**Add the following numbers vertically and write the answers in the boxes.**

$\begin{array}{r} 3 \\ + 5 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ + 2 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ + 2 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ + 4 \\ \hline \end{array}$
$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ + 2 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ + 2 \\ \hline \end{array}$
$\begin{array}{r} 7 \\ + 1 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ + 0 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$

## ADDING THREE NUMBERS



$$\boxed{2} + \boxed{3} + \boxed{4}$$

$$= \boxed{9}$$

So far, we have learnt to add two numbers, but if there are three numbers to be added, then what do we do ?

Let us look at an example  $2 + 3$ .

Here,  $2 + 3$  is 5.

But if it is  $2 + 3 + 4$ , let's see how we will do it.

We have to add three numbers 2, 3 and 4.

First add 2 and 3, the answer is 5.

Now, add 5 and 4, the answer is 9.

It means  $2 + 3 + 4 = 9$ .

$$\begin{array}{r} 2 + 3 + 4 \\ \hline \quad \quad \quad \downarrow \\ \quad \quad \quad 5 + 4 \\ \quad \quad \quad \hline \quad \quad \quad \downarrow \\ \quad \quad \quad 9 \end{array}$$

**Add the following.**

$1 + 2 + 2 = \square$

$5 + 1 + 2 = \square$

$5 + 1 + 1 = \square$

$2 + 3 + 1 = \square$

$5 + 2 + 1 = \square$

$6 + 1 + 2 = \square$

$3 + 2 + 2 = \square$

$3 + 5 + 1 = \square$

$3 + 4 + 1 = \square$

$4 + 1 + 1 = \square$

$4 + 3 + 1 = \square$

$4 + 4 + 1 = \square$

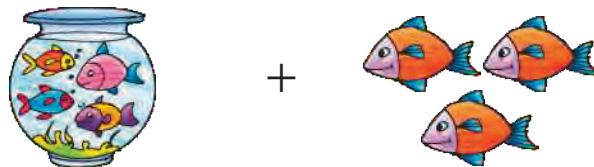
## WORD PROBLEMS

Janet bought a new camera. He took pictures of birds and squirrels at the park. He took 3 pictures of birds and 6 pictures of squirrels. How many pictures did he take in all ?



$$\boxed{3} + \boxed{6} = \boxed{9}$$

There are 4 fishes in the fish-pot. 3 more fishes are added to it. How many fishes are there in the fish-pot now ?



$$\boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

There were 3 hens and 5 chicks in the farm. How many birds are there in all ?



$$\boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

Karan had 6 balls. His friend gave him 2 more balls. How many balls does Karan have now ?



$$\boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

