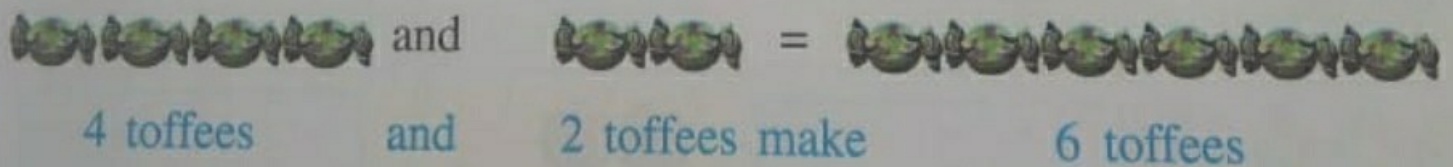


When we are putting things together, we add.

When we add two numbers we get their **SUM**.



We can also write it as $4 + 2 = 6$.

We read it as 4 plus 2 is equal to 6.

PROPERTIES OF ADDITION

Adding Zero

There are 5 apples in one plate.
There is no apple in the second plate.
How many apples are there in all?



$$5 + 0 = 5$$

When we add zero to a number, we get the same number as the sum.

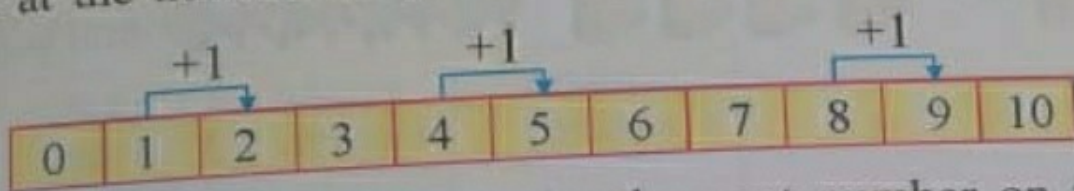
Adding 1

Shobhit has 1 ball. Her mother gave him 1 more.
How many balls are there with Shobhit now?



$$1 + 1 = 2$$

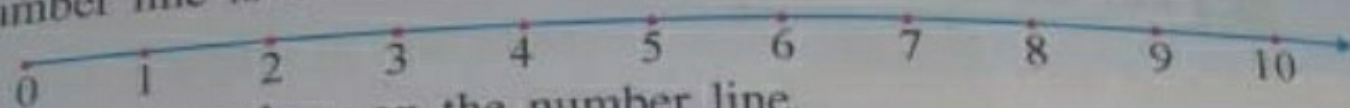
Adding 1 to a number gives the next number.
Now, look at the number strip.



When we add 1 to a number, we get the next number on the number strip.

ADDITION USING THE NUMBER LINE

A number line is a line with numbers written on it as shown.



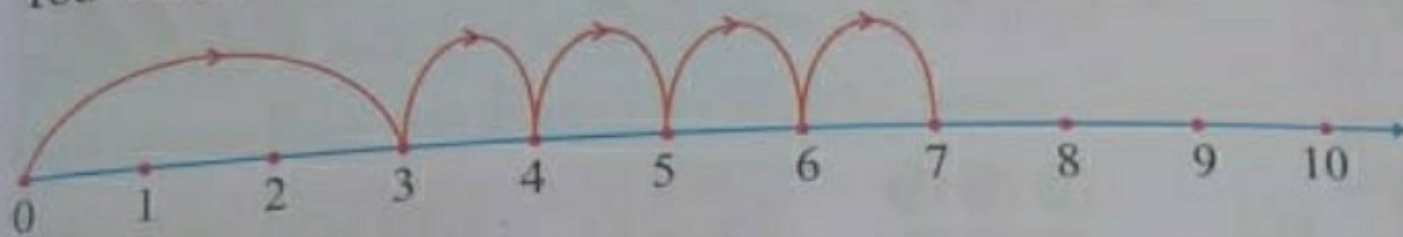
We can add numbers on the number line.

Let us add 3 and 4 on the number line.

Jump from 0 to 3.





Now, jump 4 steps forward from 3.

You will reach 7.









So, $3 + 4 = 7$

MOTHER

Carrots needed	Chiku's carrots	Miku's carrots	Addition sentence
2		0	$2 + 0 = 2$
			$1 + 1 = 2$
	0		$0 + 2 = 2$

Number combinations of 2.




Mother rabbit wants 3 carrots.

Carrots needed	Chiku's carrots	Miku's carrots	Addition sentence
3		0	$3 + 0 = 3$
			$2 + 1 = 3$
			$1 + 2 = 3$
	0		$0 + 3 = 3$




Number combinations of 3.

Order in Addition



When we add numbers with their orders changed, their sum remains the same.

 and  is 



6 + 2 = 8

 and  is 

2 + 6 = 8

 and 

3 + 4 = 7

 and 

4 + 3 = 7


NUMBER COMBINATIONS

We can add or combine different numbers to get the same answer.

Chiku and Miku are brothers. They collect their food together. Everyday mother rabbit tells them to bring some carrots.

Mother rabbit wants 1 carrot.











Carrots needed	Chiku's carrots	Miku's carrots	Addition sentence
1		0	$1 + 0 = 1$
	0		$0 + 1 = 1$

Number combinations of 1.

Mother rabbit wants 2 carrots.

	Miku's	Addition
--	--------	----------

Mother rabbit wants 4 carrots.

Carrots needed	Chiku's carrots	Miku's carrots	Addition sentence
4		0	$4 + 0 = 4$
			$3 + 1 = 4$
			$2 + 2 = 4$
			$1 + 3 = 4$
	0		$0 + 4 = 4$

Number combinations of 4.



HORIZONTAL ADDITION

We can add numbers horizontally.
Draw lines on the top of the numbers as shown.
Now count total number of lines.

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



Try These

Draw lines and add :

$2 + 3 = \underline{\quad}$

$3 + 6 = \underline{\quad}$

$4 + 2 = \underline{\quad}$

$1 + 5 = \underline{\quad}$

$6 + 4 = \underline{\quad}$

$2 + 6 = \underline{\quad}$

VERTICAL ADDITION

We can add numbers vertically. Write numbers one below the other. Draw dots to represent the numbers. Count the total number of dots.

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