

ADDITION WITHIN 10

A WHAT IS ADDITION?

Definition Addition

Addition is joining groups together to find the total, called **sum**.

In mathematics, we use symbols to write this down:

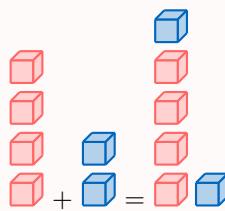
- The **plus sign** (+) means to add.
- The **equals sign** (=) shows that what is on one side is the same amount as what is on the other side.

We can represent "four plus two equals six" in many ways:

- **With numbers:**

$$4 + 2 = 6$$

- **With cubes:**



- **With fingers:**



B HOW TO ADD

Method Counting All

The first strategy to learn addition is called "**Counting All**." This means we combine our groups and then count every single item from the beginning to find the total.

Let's solve: $3 + 2 = ?$

- **Step 1: Show the first number.** Hold up **3 fingers** on one hand.

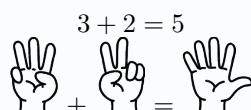


- **Step 2: Show the second number.** Hold up **2 fingers** on your other hand.



- **Step 3: Count all the fingers** that are up. Point to each one as you count: "One, two, three, four, five!"

The total is 5.



Method Counting On

A faster way to add is called "**Counting On**." Instead of starting from 1, you start with the bigger number and then "count on" the smaller number.

Let's solve: $4 + 3 = ?$

- **Step 1: Start with the bigger number.** The bigger number is 4. Let's show **4 fingers** on one hand and say the number "Four" out loud.



- **Step 2: Get ready to count on.** We need to add 3 more. So, get **3 fingers** ready on your other hand. These are the fingers we will count.



- **Step 3: Count on from 4.** Touch each of the 3 fingers one by one as you continue counting: "Five, six, seven!"

The last number you said is the total. The total is 7.

$$\begin{array}{ccc} \text{Hand with 4 fingers} & + & \text{Hand with 3 fingers} \\ & & = \end{array} \quad 4 + 3 = 7$$

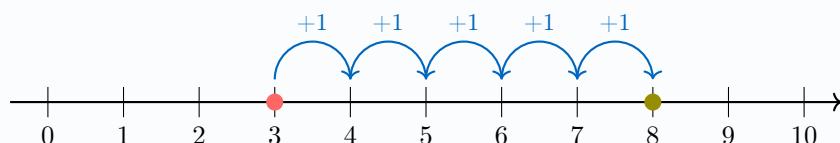
C ADDING ON THE NUMBER LINE

Method Using a Number Line to Add

A number line is a great tool for visualizing addition. It's like taking steps on a path.

Let's solve: $3 + 5$

1. **Start at the first number.** Find the number **3** on the number line. This is your starting point.
2. **Jump forward.** The second number, **5**, tells you how many jumps to make. Since we are adding, we move to the right, where the numbers get bigger. Make 5 jumps.
3. **Find your landing spot.** The number you land on is the answer.



After 5 jumps, you land on 8. So, $3 + 5 = 8$.