

# Level 1:

## 1.1 Harder additions

## 1.2 Harder subtractions

Now we are increasing the level. We will learn how to do additions and subtractions with more numbers. For example, you will know how to operate this addition:

$$234+145$$

## 1.1 Harder additions

Operate additions like the one above is easy. Here is an example:

$$23+45$$

The first thing you can do to make the operation easier is putting it in a vertical orientation like this:

$$\begin{array}{r} 23 \\ + 45 \\ \hline \end{array}$$

Then you have to operate the numbers in each column. It is very important to start from the right and go right to left.

$$\begin{array}{r} 23 \\ + 45 \\ \hline 68 \end{array}$$

Now you can operate all the additions from one number to 10 numbers, because you have to use the same method every time.

Now, let's see a harder addition:

$$\begin{array}{r} 235 \\ + 457 \\ \hline \end{array}$$

This addition is harder because in the “first column” (5+7) the result is 12 and you can’t put 12 there. So what we can do? We keep the 2 in the column and the 1 will be a number that will be in the second column like this:

$$\begin{array}{r} 1 \\ 235 \\ + 457 \\ \hline 2 \end{array}$$

You can see that the number one is above the three, so you have to do the addition with the three numbers (1+3+5)

The result of the addition is this:

$$\begin{array}{r} 1 \\ 235 \\ + 457 \\ \hline 692 \end{array}$$

## 1.2 Harder subtractions:

To operate harder subtractions we use the same method that we use when we operate harder additions:

$$\begin{array}{r} 23 \\ - 12 \\ \hline 11 \end{array}$$

You can see that we resolved the operation like before, putting it in “columns” and resolving them from right to left. Now, we can increase the level:

$$\begin{array}{r} 232 \\ - 116 \\ \hline \end{array}$$

The problem of this subtraction is that you can't operate the first column because 6 is bigger than 2. To resolve it you have to think that the 2 is a 12 so the result of the column is 6. Like the additions the number 1 of the 12 is going to be part of the column of the left, but now it will be added to the number 1 of the second column, like this:

$$\begin{array}{r} 232 \\ 1 \\ - 116 \\ \hline 116 \end{array}$$