# Long Addition

Study Development Quickguide

## Method

1. List the numbers you would like to add so that their units, tens, hundreds, thousands etc line up in columns.
2. Beginning with the furthest column on the right, add up all of the numbers in the column and write this value underneath the list, so that it is in line with the column that was added.
3. If the number was greater than 9, write just the units part into the column that is being added up, and then write the tens part underneath the number that you have just written, so that it lines up with the column to the left of the column you are adding up.
4. Move to the next column to the left.
5. Add up all of the numbers in that column, including any that were written underneath.
6. Write the value underneath the list, separating out the tens and units if necessary.
7. Repeat steps 4-6 until you have added up every column.

## Example

Add 329 + 412 + 1140.

| | | | | |
|---|---|---|---|---|
| | | 3 | 2 | 9 |
| | | 4 | 1 | 2 |
| + | 1 | 1 | 4 | 0 |
| | | | | |

Beginning in the right-hand column:

| | | | | |
|---|---|---|---|---|
| | | 3 | 2 | 9 |
| | | 4 | 1 | 2 |
| + | 1 | 1 | 4 | 0 |
| | | | | 1 |
| | | | 1 | |

Then the next column:

$$\begin{array}{rrrrr} & & 3 & 2 & 9 \\ & & 4 & 1 & 2 \\ + & 1 & 1 & 4 & 0 \\ \hline & & & 8 & 1 \\ \hline & & & \cancel{1} & \end{array}$$

Then the next:

$$\begin{array}{rrrrr} & & 3 & 2 & 9 \\ & & 4 & 1 & 2 \\ + & 1 & 1 & 4 & 0 \\ \hline & & 8 & 8 & 1 \\ \hline & & & \cancel{1} & \end{array}$$

And the final column:

$$\begin{array}{rrrrr} & & 3 & 2 & 9 \\ & & 4 & 1 & 2 \\ + & 1 & 1 & 4 & 0 \\ \hline & 1 & 8 & 8 & 1 \\ \hline & & & \cancel{1} & \end{array}$$

Therefore, the answer is 1881.

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