

# Mental Math: Left-To-Right Addition (3-Digit Numbers)

Key idea: Simplify the problem by breaking it into parts.

Step	Example
	$538 + 327$
Separate the 100s out of the 2 <sup>nd</sup> Number and add the 100s.	$538 + 300 + 27 =$ $838 + 27$
Separate the 10s out of the 2 <sup>nd</sup> Number and add the 10s.	$838 + 20 + 7 =$ $858 + 7$
Then add the 1s	$858 + 7 = 865$

Tip: As you are learning, say the problems out loud as you work them, emphasizing the number you are adding. For example: **Five hundred** and thirty-eight, plus **three hundred** and twenty-seven. Eight hundred and **thirty-eight** plus **twenty-seven**. Eight hundred and fifty-**eight** plus **seven**.

## Practice

$\begin{array}{r} 242 \\ +137 \\ \hline \end{array}$	$\begin{array}{r} 312 \\ + 256 \\ \hline \end{array}$	$\begin{array}{r} 635 \\ + 814 \\ \hline \end{array}$	$\begin{array}{r} 457 \\ + 241 \\ \hline \end{array}$	$\begin{array}{r} 912 \\ + 475 \\ \hline \end{array}$
$\begin{array}{r} 852 \\ + 378 \\ \hline \end{array}$	$\begin{array}{r} 457 \\ + 269 \\ \hline \end{array}$	$\begin{array}{r} 878 \\ + 797 \\ \hline \end{array}$	$\begin{array}{r} 276 \\ + 689 \\ \hline \end{array}$	$\begin{array}{r} 877 \\ + 539 \\ \hline \end{array}$

## Answers to practice:

$\begin{array}{r} 242 \\ +137 \\ \hline 379 \end{array}$	$\begin{array}{r} 312 \\ + 256 \\ \hline 568 \end{array}$	$\begin{array}{r} 635 \\ + 814 \\ \hline 1,449 \end{array}$	$\begin{array}{r} 457 \\ + 241 \\ \hline 698 \end{array}$	$\begin{array}{r} 912 \\ + 475 \\ \hline 1,387 \end{array}$
$\begin{array}{r} 852 \\ + 378 \\ \hline 1,230 \end{array}$	$\begin{array}{r} 457 \\ + 269 \\ \hline 726 \end{array}$	$\begin{array}{r} 878 \\ + 797 \\ \hline 1,675 \end{array}$	$\begin{array}{r} 276 \\ + 689 \\ \hline 965 \end{array}$	$\begin{array}{r} 877 \\ + 539 \\ \hline 1,416 \end{array}$

## Game: 3-Digit Addition Battle

### Materials needed:

- Deck of cards. Face cards and 10s removed. A= 1 ( You can use multiple decks if you want)
- Coin for Flipping
- Dry erase board/markers/eraser
- 3-Digit Addition Battle Game Board

### To play:

- Shuffle Cards
- Each player draws 6 cards one at a time and writes the digits in a space on the 3-Digit Addition Battle Game Board. Once they are written down, they cannot be changed.
- Both players add their numbers together using mental math. (No fair writing. ) If answers are the same, both players get a point.
- If answers are different, the player with the highest number gets the point.
- Keep score on the dry erase board.

**To win:** First player to pre-determined number of points wins. For example, 5 or 10.

**Variation:** Institute a challenge. If one player thinks the other had added incorrectly, he/she can challenge. If the challenger wins, they get a point. If the original answer was correct, that player gets a point.

# 3-Digit Addition Battle Game Board


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A 3-digit addition battle game board. It features a plus sign (+) to the left of a 2x3 grid of empty boxes. A thick horizontal line is drawn below the grid, serving as a baseline for the numbers.



# 3-Digit Addition Battle Game Board


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A large plus sign (+) is positioned to the left of the grid. A thick horizontal line is drawn below the grid.



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