



# Sum Groups

**Math Concepts:** Addition - single digit, Number bonds

**Materials:** Game board, colored tokens or markers

**Players:** 1

**Set up:** These puzzles reinforce adding and number bonds in a fun way, and they are easy to make. Pick a target number such as 10. Take a blank 3 by 3 or 4 by 4 board and fill it with pairs or triplets that add up to the target number – the numbers in a group must border each other. If you use the target number in the board (together with 0), that will give your students a simple place to start.

**Example:** Here are two boards that have a target sum of 10.

8	2	3
5	3	4
5	7	3

1	5	3	2
4	3	7	4
5	3	5	6
3	4	1	4

**Challenge:** Finds groups of two or three numbers that share a side and add up to the target sum. When finished, the groups must exactly fill the board.

## – DISCUSSION AND TIPS –

Use tokens if you want to be able to reuse the boards. You can also laminate the boards and have your students use erasable white board markers.

## – VARIATIONS –

You may pick any target number. However, number bonds for 10 are particularly useful to practice.

You can have your students make these for each other.



