

Divide the class into pairs and pass out a **die** and a **Looking for 10,000 sheet** to each pair (for students needing practice with place value, pass out a **Looking for 1,000 sheet**. For students needing more challenge, pass out a **Looking for 100,000 sheet**).

In this game, students roll a die and use the numbers to create two 3-, 4-, or 5-digit numbers (i.e., if using the “10,000” sheet, they would create a four digit number). The objective is to add up the two numbers. Whomever gets closest to 10,000 wins the game.

For example, suppose player A rolls a 1,3,5, and 6, creates the number 5,361 and writes the number on a grid. Then on the next turn, player A rolls a 2, 3, 6, 1. Player A must then decide whether to arrange the digits as in option 1 (to the right) or option 2 (to the right). In this case, option 1 is closest to 10,000.

After completing round 1, have each player see if they can adjust the digits in their first roll to create a number that is even closer to 10,000. In this example, roll 1 could be changed to 6,351. Then the sum of rolls 1 and 2 would be $6,351 + 3,621 = 9,972$, which is much closer to 10,000.

MATERIALS:

- Dice
- Looking for 1,000, 10,000, and 100,000 sheets

Option 1

	5	3	6	1
+	3	6	2	1
	8	9	8	2

Option 2

	5	3	6	1
+	6	1	2	3
1	1	4	8	4

Looking for 1,000

+			

+			

+			

+			

+			

+			

Looking for 10,000

+				

+				

+				

+				

+				

+				

Looking for 100,000

+					

+					

+					

+					

+					

+					