5 by 5 5 by 5 Addition Prediction

Step 1. Have a student come up to the board.   Ask the student o write down any 5 digit number. towards the top of the board.

Step 2. You write down a prediction and places it in full sight for all to see.

Step 3. Turn back around and ask the student to write down **2 more** 5 digit numbers exactly under the first number.

Step 4. Turn around and as fast as you can write down 2 more 5 digit numbers. To explain my numbers I say "to make it even more random I will put down my social security number and my license plate number. Now we have 5 really random numbers.

Step 5.   State that there are 5 random numbers on the board. Draw a line under them and ask the student to add up the 5 numbers. Be sure to give them time to work but watch to be sure they are correct.

Step 6. Have the student pick up the prediction and show the class that you predicted the total.

How does it work:

The prediction is based on the 5 digit number the student first writes down. Lets say the write down 56839. To make your prediction put a 2 **in front of the far left digit** (in the 6th place) and **subtract 2 from the far right digit** (the ones digit)

Example 1: Student writes 56839 you think <u>**2**</u> 5683(9-2)   and write   256837

Example 2: Student writes 61342 you think <u>**2**</u> 2134(2-2)   and write   261340

The 2 numbers you write down: The first number your write down will have digits in each place value so that your number and the second numbers places values total 9 If the student wrote 38567 then you must write down digits so 3 + ? = 9 and 8 +? = 9   and   5 + ? = 9   etc.
So the students 38576 has you write 61432 and the students 97451 has you write 12548

They write	56723	You predict 256721
They write	38567	
They write	97451	
You write	61432	The common place values of the 2nd and 4th numbers total 9
You write	+ 12548	The common place values of the 3rd and 5th numbers total 9
The total is	256721	

Note: A extensive version of this effect can be found on my web site listed as Supper Add Cards 2D and 3D.