

Name _____ Date _____

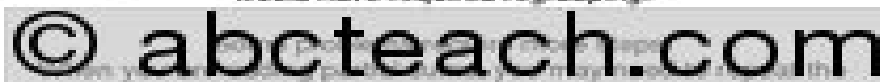
Addition: Partial Sums Method

The Partial Sums method of addition works by first adding similar place values to find the partial sums, and then adding those sums.

In this method, you will work from left to right.

	456
	<u>+ 398</u>
Step 1: Add the hundreds place ($400 + 300 = 700$).....	700
Step 2: Add the tens place ($50 + 90 = 140$).....	140
Step 3: Add the ones place ($6 + 8 = 14$).....	<u>+ 14</u>
Step 4: Add the partial sums ($700 + 140 + 14 = 854$).....	854

Notice that when the tens place was added ($50 + 90 = 140$), the sum added to the hundreds place. Also when the ones place was added ($6 + 8 = 14$), the sum added to the tens place. In traditional addition, this would have required regrouping.



process if a sum will be added to the place to the left.

	3745
	<u>+ 2298</u>
Step 1: Add the thousands place ($3000 + 2000 = 5000$).....	5000
Step 2: Add the hundreds place ($700 + 200 = 900$).....	900
Step 3: Add the tens place ($40 + 90 = 130$).....	130
Step 4: Add the ones place ($5 + 8 = 13$).....	<u>+ 13</u>
Step 5: Add the partial sums, repeating the process.....	5000
Step 6: Add the hundreds place ($900 + 100 = 1000$).....	1000
Step 7: Add the tens place ($30 + 10 = 40$).....	40
Step 8: Add the ones place ($3 + 9 = 3$).....	<u>+ 3</u>
Step 9: Add the partial sums ($5000 + 1000 + 40 + 3 = 6043$)..	6043

When you see that you need to regroup, you will need to repeat the process of adding partial sums until regrouping is no longer needed.