X Sums Sudoku

Place a digit from 1 to 9 into each of the empty squares so that each digit appears exactly once in each of the rows, columns and the nine outlined 3x3 regions.

Each number outside the grid is the sum of the first X numbers placed in the corresponding direction, where X is equal to the first number placed in that direction.

		27			20			36	45	
	2	5	7	1	4	6	3	8	9	
	3	1	9	7	8	2	5	6	4	17
38	8	6	4	3	5	9	2	1	7	
45	9	8	2	6	3	4	1	7	5	
	5	7	1	2	9	8	6	4	3	13
	4	3	6	5	1	7	9	2	8	41
	7	9	5	8	6	1	4	3	2	
1	1	4	8	9	2	3	7	5	6	
	6	2	3	4	7	5	8	9	1	1
	32	6	16	26		24	42	45		

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