

Killer sudoku 31: medium, with a sum table

30 cages · 5 given digits · rule of 45

Fill every square with a digit from 1 to 9 so that each row, column and 3x3 box holds every digit once. The small number in a dashed cage is the total of its squares, and no digit repeats inside a cage.

17		7	5	23	3		12	
10		11			10		12	7
			5	9	20			
7	6	21					15	
			20		23			11
24		7				1	15	
	9	17		4	11			
			13			10	5	16
	9			10				

Sums that can be made in only one way

2 squares: $3 = 1+2$ · $4 = 1+3$ · $16 = 7+9$ · $17 = 8+9$

3 squares: $6 = 1+2+3$ · $7 = 1+2+4$ · $23 = 6+8+9$ · $24 = 7+8+9$

4 squares: $10 = 1+2+3+4$ · $11 = 1+2+3+5$ · $29 = 5+7+8+9$ · $30 = 6+7+8+9$

Killer sudoku 31: medium, with a sum table (solution)

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Fill every square with a digit from 1 to 9 so that each row, column and 3x3 box holds every digit once. The small number in a dashed cage is the total of its squares, and no digit repeats inside a cage.

¹⁷ 4	8	7	5	²³ 6	³ 1	2	¹² 9	3
¹⁰ 1	5	¹¹ 2	9	8	¹⁰ 3	7	¹² 4	⁷ 6
9	3	6	⁵ 4	⁹ 7	²⁰ 2	5	8	1
⁷ 5	6	²¹ 3	1	2	4	9	¹⁵ 7	8
2	1	8	²⁰ 6	9	²³ 7	3	5	¹¹ 4
²⁴ 7	9	⁷ 4	3	5	8	1	¹⁵ 6	2
3	⁹ 2	¹⁷ 9	7	4	¹¹ 6	8	1	5
6	7	1	¹³ 8	3	5	¹⁰ 4	⁵ 2	¹⁶ 9
8	⁹ 4	5	2	¹⁰ 1	9	6	3	7

Sums that can be made in only one way

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3 squares: 6 = 1+2+3 · 7 = 1+2+4 · 23 = 6+8+9 · 24 = 7+8+9

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