

KILLER SUDOKU

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Killer Sudoku

Place a digit from 1-9 in each empty cell so that each row, each column and each 3x3 block contains all the digits from 1-9. In addition, the digits in each inner shape (marked by dots) must add up to the number in the top corner of that box. No digit can be repeated within an inner shape.

Don't forget:

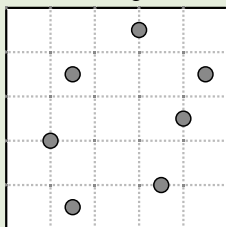
- The digits in each row, column and 3x3 block will always total 45. ($1+2+3+4+5+6+7+8+9=45$.)
- Certain sum boxes have a unique answer; 3 must be made from 1 and 2, for example.

¹⁶ 4	5	7	⁴ 1	3	⁸ 2	6	¹⁷ 9	8
¹⁴ 8	6	⁸ 3	5	¹⁶ 7	9	⁷ 2	¹⁴ 4	1
³ 2	1	¹⁷ 9	8	⁹ 4	²² 6	5	¹⁵ 7	3
⁷ 3	4	³ 1	2	5	7	9	8	6
²² 6	7	¹¹ 8	3	²³ 9	⁷ 1	4	2	¹² 5
¹⁴ 5	9	¹² 2	4	6	¹³ 8	¹¹ 1	3	7
9	⁷ 3	4	6	8	5	7	³ 1	2
⁸ 1	¹⁴ 8	6	¹⁶ 7	³ 2	⁷ 4	3	¹⁴ 5	9
7	⁷ 2	5	9	1	²¹ 3	8	6	4

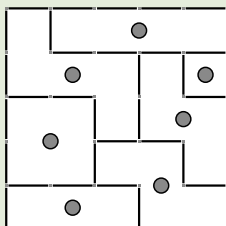
EXAMPLE WITH SOLUTION IN RED.

Galaxies

The entire of the night sky (the grid) is covered with 180-degree rotationally symmetrical galaxies. One dot marks the centre of each galaxy and no galaxies overlap. Use the lines of the matrix to mark out the borders of the galaxies.



EXAMPLE



SOLUTION

MinuPlu

1-		2+
3+	9×	

EXAMPLE

1-	3	2	1	2+
3+	1	3	2	
	2	1	3	

SOLUTION

Place a digit from 1-6 (1-3 in the example) in each cell. The digits in each heavily bordered region must combine to produce the total in the top corner of that region, using only the mathematical operator specified (+, -, ×, ÷). Digits can be repeated in a region, but not in the same row or column.

Hidoku

Construct a chain of consecutive numbers in the grid, from the smallest number to the largest. Links must be to neighbouring cells (horizontally, vertically or diagonally).

16	15	3	
13			
	6	9	1
11			

EXAMPLE

16	15	3	4
13	14	5	2
12	6	9	1
11	10	7	8

SOLUTION

1



8		9		17		11	
20		8	11	16		8	
	12		17		6		28
23			13	3			
	3		6	19			
	16		13		4		12
	8	17	13	7		8	
			17		16	14	4
18							

2



12		9		3		22	6	12
3	21	7	13					
			9		15		4	14
10		15		8				
	3		17		13		9	
18		7	3	8			16	12
	4			23				
20		13		11	5	7	14	3
		16						

3 Killer Uncaged



This Killer has been uncaged, but the same rules apply.

The sum of the digits for each missing cage (or inner shape) is placed, as usual, in the upper-left cell of that cage. There are no single cell cages.

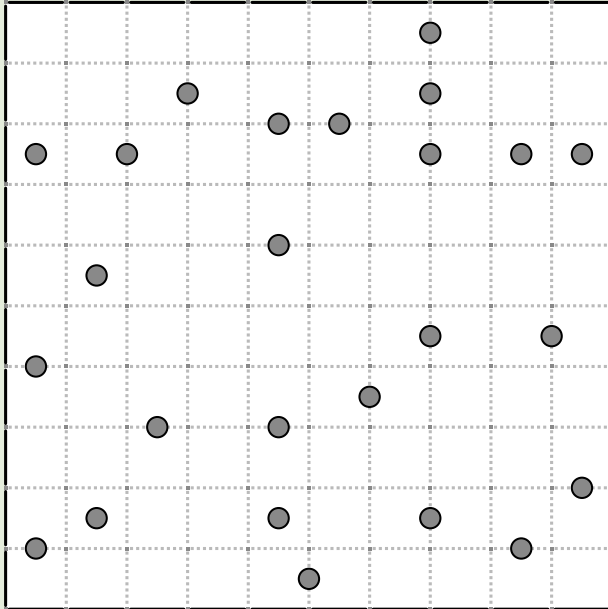
5		16	14	10			15	
13				16	6	8		
11		17	3			28	15	
16				13			9	5
	6			7				
23		8			17	7		11
		11				13		
4	12		14				22	
		23			7			

4



8	14		7	16		12	6	
	16			8			11	
	7		20		15		16	17
15	4	8						
				16			9	
7	14		3	14		16	4	
	7			11			15	
16			12		5	7		7
14		21				7		

5 Galaxies



6



8		13		11			16	
7				21			14	
23	16		18		12	3	5	
	6						15	
	13	20		14			8	
9		7			19			11
			9			17		
7	11		16		14	4		6
	17		3			12		

7



17		11	10	16	3		8	
11	4				17		6	
		8		13	7		16	7
4	14							22
	11	16	12		18			
11			12		16	4		
		4				15		3
16		7	15	3	11	18		
10							9	

8 MinuPlu



36×	30×			20×	12×
		4+	6×		
40×				24×	11+
		60×			
5-	12×			4×	
		90×			

9 Hidoku



				37				
	5				27	28		23
	2		32		30		13	
1		8					14	
46	44						16	
47		63				17		
		49			68			74
54						70		
	56	57			81		77	



10



8		16	23	12	12		4	13
13	14							
				22		17	12	10
10	3		6					
		12	11			15		
22			4		13		6	
11		6		20	8		26	
	16	4			8			13
		12				3		

11 Irregular Killer



15		15	13	11	19	17		
9							22	17
			10					
8				21				14
27			14					
	19				17	23	6	
13	15		21				11	
		21		7	3		17	

The normal rules of Killer Sudoku apply, *except*, the usual 3x3 blocks have been replaced by irregularly shaped, coloured blocks (which must contain all the digits from 1-9).

12



15	7		13		10		22	10
		12		19				
8	20	15	10		7	18		
							11	
		18			13	6		16
8	7			11			14	
	9				16			
12	16		6		15			
	16			10			15	

13



8			13	17		12		8
22	12					8	17	
	23		12		8			15
			5					
8	3		15		20	15	9	
	19		21				20	
		14						
16				3		17	6	8
4		16		11				

14



21	8		11		17	6	24	6
		21		3				
7			12		11	17		15
18								
		16		13	14		4	
10		14					20	
	16	5	7	22		7		
15					7	16		16
		6						

Solutions

1

2	6	5	1	3	9	8	4	7
9	8	1	5	4	7	3	6	2
3	7	4	8	2	6	5	1	9
4	5	3	9	7	1	2	8	6
8	1	2	4	6	3	9	7	5
6	9	7	2	5	8	1	3	4
5	3	9	7	1	4	6	2	8
1	4	8	6	9	2	7	5	3
7	2	6	3	8	5	4	9	1

2

5	7	6	3	2	1	8	4	9
1	8	4	7	6	9	5	2	3
2	9	3	4	5	8	7	1	6
7	4	9	6	1	5	2	3	8
3	2	1	8	9	7	6	5	4
8	6	5	2	3	4	1	9	7
4	3	2	1	8	6	9	7	5
9	1	8	5	7	3	4	6	2
6	5	7	9	4	2	3	8	1

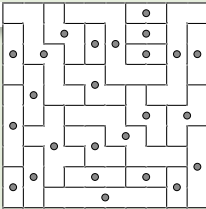
3

4	1	7	8	5	3	2	9	6
5	8	9	6	7	2	3	1	4
2	3	6	1	9	4	5	7	8
7	6	1	2	8	5	9	4	3
9	4	3	7	1	6	8	5	2
8	2	5	3	4	9	1	6	7
6	9	4	5	2	8	7	3	1
1	5	2	4	3	7	6	8	9
3	7	8	9	6	1	4	2	5

4

5	6	8	3	7	9	1	4	2
1	9	7	4	2	8	3	6	5
2	4	3	6	5	1	8	7	9
7	3	6	5	1	4	2	9	8
8	1	2	9	3	7	6	5	4
4	5	9	2	8	6	7	1	3
3	2	4	1	6	5	9	8	7
9	7	1	8	4	3	5	2	6
6	8	5	7	9	2	4	3	1

5



6

5	3	8	2	6	1	4	7	9
1	4	2	3	7	9	5	6	8
6	9	7	4	8	5	1	2	3
9	1	5	6	3	4	2	8	7
8	7	3	9	5	2	6	4	1
2	6	4	8	1	7	9	3	5
7	2	1	5	4	3	8	9	6
4	5	6	7	9	8	3	1	2
3	8	9	1	2	6	7	5	4

7

8	9	6	4	7	2	1	5	3
7	1	5	6	9	3	8	2	4
4	3	2	5	8	1	6	9	7
3	6	8	1	5	4	2	7	9
1	2	7	9	3	8	4	6	5
5	4	9	2	6	7	3	1	8
6	5	1	3	4	9	7	8	2
9	7	3	8	2	6	5	4	1
2	8	4	7	1	5	9	3	6

8

^{36x} 2	^{30x} 5	6	1	^{20x} 4	^{12x} 3
3	6	⁴⁺ 1	^{6x} 2	5	4
^{40x} 4	¹ 1	2	3	^{24x} 6	¹¹⁺ 5
⁵ 5	² 2	³ 3	⁴ 4	¹ 1	⁶ 6
⁶ 6	³ 3	⁴ 4	⁵ 5	² 2	¹ 1
¹ 1	⁴ 4	⁵ 5	⁶ 6	³ 3	² 2

9

4	34	36	37	38	26	25	24	
3	5	33	40	39	27	28	23	
6	2	41	32	31	30	29	13	21
1	7	8	32	10	11	12	14	20
46	44	43	9	65	66	16	19	
47	45	63	64	61	67	17	18	73
53	48	49	62	60	68	69	72	74
54	52	61	60	59	70	71	75	
55	66	67	68	60	61	76	77	76

10

2	6	9	8	7	1	5	3	4
8	3	7	6	5	4	2	1	9
5	4	1	9	2	3	8	7	6
7	1	6	2	4	8	9	5	3
3	2	4	5	6	9	7	8	1
9	5	8	3	1	7	6	4	2
1	8	2	4	9	5	3	6	7
6	7	3	1	8	2	4	9	5
4	9	5	7	3	6	1	2	8

11

4	6	2	9	8	5	1	3	7
2	5	1	4	3	7	6	8	9
6	1	7	2	4	3	9	5	8
1	7	5	8	9	4	2	6	3
9	8	3	7	1	6	4	2	5
7	3	9	1	6	8	5	4	2
5	2	4	3	7	9	8	1	6
8	9	6	5	2	1	3	7	4
3	4	8	6	5	2	7	9	1

12

9	4	1	5	8	3	7	2	6
6	2	5	7	1	9	8	3	4
3	8	7	6	2	4	5	9	1
5	9	8	4	7	2	1	6	3
2	1	6	3	9	8	4	5	7
7	3	4	1	6	5	2	8	9
1	6	3	8	5	7	9	4	2
8	7	9	2	4	6	3	1	5
4	5	2	9	3	1	6	7	8

13

1	4	3	6	9	8	5	7	2
9	5	7	1	4	2	3	8	6
6	8	2	5	7	3	4	9	1
7	9	4	2	3	5	1	6	8
3	2	1	8	6	9	7	5	4
5	6	8	4	1	7	2	3	9
2	3	5	9	8	4	6	1	7
8	7	6	3	2	1	9	4	5
4	1	9	7	5	6	8	2	3

14

6	3	5	7	4	8	1	9	2
7	8	1	3	2	9	5	6	4
2	4	9	5	1	6	3	7	8
9	1	8	4	3	5	6	2	7
4	5	7	9	6	2	8	3	1
3	2	6	8	7	1	4	5	9
5	9	3	1	8	7	2	4	6
8	7	2	6	5	4	9	1	3
1	6	4	2	9	3	7	8	5