



Learn a new puzzle

Killer Sudoku

Each row, column and box gets every number once. Each cage adds to its number. No repeats in a cage.

Trick: Rule of 45**1**

8	13	7	11	12			
	12	17	11	12			7
12		18		10			
5	16		9	18	13		
5		9	7	11			
9			17	15		5	
8		12		9		14	
11	20	8	13				
	9	7	10				

Row 1 adds to $1 + 2 + \dots + 9 = 45$.

2

8	13	7	11	12			
	12	17	11	12			7
12		18		10			
5	16		9	18	13		
5		9	7	11			
9			17	15		5	
8		12		9		14	
11	20	8	13				
	9	7	10				

The cages inside row 1 make 43. One square is left over.

3

8	13	7	11	12			
	12	17	11	12			7
12		18		10			
5	16		9	18	13		
5		9	7	11			
9			17	15		5	
8		12		9		14	
11	20	8	13				
	9	7	10				

So it is $45 - 43 = 2$.

Try it

9	9	8	10	6	8
	6				3
8	5			7	
		12	7		7
4	13			13	
			4		

The answer is with the other answers.

Talk about it: Ask: What does a whole row add up to?



1

Killer Sudoku

Each row, column and box gets every number once. Each cage adds to its number; no repeats in a cage.



10	8	6	7	8	6
			4		
3	6		8	9	9
6	13				
	13	6		7	
		10			

2

Killer Sudoku

Each row, column and box gets every number once. Each cage adds to its number; no repeats in a cage.



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



3

Killer Sudoku

Each row, column and box gets every number once. Each cage adds to its number; no repeats in a cage.



4			7	9	11
6	13			12	
	3	7	4		6
6					
	13	12		8	5
		3	2	5	

4

Killer Sudoku

Each row, column and box gets every number once. Each cage adds to its number; no repeats in a cage.



9		7		14	7
6	1		10		
10					
3	5		9		11
	12	7	11		
				5	



5

Killer Sudoku

Each row, column and box gets every number once. Each cage adds to its number; no repeats in a cage.



3	9		9		8
	11	5	4		
7			9	7	
	7	10		10	5
11					
		7		4	

6

Killer Sudoku

Each row, column and box gets every number once. Each cage adds to its number; no repeats in a cage.



12	3	7		7	
		11	10	6	
				11	5
7		6			
5	15		8	12	
					1

**7****Killer Sudoku**

Each row, column and box gets every number once. Each cage adds to its number; no repeats in a cage.



8		7	12		5
6				6	
11		12	7		11
	7			12	
10					
		5		7	



8

Killer Sudoku

Each row, column and box gets every number once. Each cage adds to its number; no repeats in a cage.



15	10	8		5		14		15
		9		18	5		15	
15	6	11	17		10			
						8		9
7	11		6			14		
	10	7		15		6	10	
8		12		18			9	
	10	15			13	24	10	
			10					



9

Killer Sudoku

Each row, column and box gets every number once. Each cage adds to its number; no repeats in a cage.



11		6		10	16	10	11	
9	13						7	
	6	14		12			22	13
9		19			12			
		10	14		13	7		3
18			8				8	
	8			14	12			12
17			12			8		
16				8		17		



10

Killer Sudoku

Each row, column and box gets every number once. Each cage adds to its number; no repeats in a cage.



9		12	17	13	8		9	
14	10					16	17	
			6		19			5
13	10		18	11			12	
	18							16
12		14		12		6		
				16			23	8
	14				21			
16			10					



Answers

For grown-ups. Cut off or keep this page aside until the puzzles are done.

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4	3	1	6	2	5
5	6	2	1	4	3
2	4	5	3	1	6
6	1	3	2	5	4
3	2	4	5	6	1
1	5	6	4	3	2

#1

6	5	4	3	2	1
1	3	2	4	6	5
3	1	5	2	4	6
2	4	6	1	5	3
4	6	3	5	1	2
5	2	1	6	3	4

7 in 3 squares can only be 1 + 2 + 4.
Only those numbers go in the 7 cage in row 5.

#2

6	5	4	3	2	1
1	3	2	6	4	5
4	6	5	1	3	2
3	2	1	4	5	6
2	4	6	5	1	3
5	1	3	2	6	4

15 in 3 squares can only be 4 + 5 + 6.
Only those numbers go in the 15 cage.

#3

3	1	5	4	2	6
4	6	2	5	1	3
2	3	6	1	5	4
5	4	1	3	6	2
1	2	4	6	3	5
6	5	3	2	4	1

4 in 2 squares can only be 1 + 3. Only those numbers go in the 4 cage in row 1.

#4

3	6	4	1	5	2
5	1	2	3	6	4
6	4	5	2	3	1
1	2	3	5	4	6
2	3	6	4	1	5
4	5	1	6	2	3

7 in 3 squares can only be 1 + 2 + 4.
Only those numbers go in the 7 cage at row 1, column 3.

#5

1	3	6	4	5	2
2	5	4	1	3	6
4	6	1	3	2	5
3	2	5	6	4	1
5	1	3	2	6	4
6	4	2	5	1	3

3 in 2 squares can only be 1 + 2. Only those numbers go in the 3 cage.

#6

5	2	4	3	1	6
6	1	3	5	2	4
1	6	2	4	5	3
4	3	5	1	6	2
2	4	1	6	3	5
3	5	6	2	4	1

Column 1 adds to 21. The cages inside make 17, so the square left is $21 - 17 = 4$.

#7

6	2	4	5	1	3
5	1	3	6	4	2
3	6	1	4	2	5
2	4	5	1	3	6
1	3	6	2	5	4
4	5	2	3	6	1

Row 6 adds to 21. The cages that touch it make 22, so the square sticking out is $22 - 21 = 1$.

#8

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

Column 2 adds to 45. The cages inside make 36, so the square left is $45 - 36 = 9$.



Answers For grown-ups. Cut off or keep this page aside until the puzzles are done.

#9

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

Row 9 adds to 45. The cages inside make 41, so the square left is $45 - 41 = 4$.

#10

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

Every way to make the 17 cage in row 1 uses a 8, and its 8 must be in column 4. So no other square in column 4 can be 8.