

# UnTouch Sudoku

8 points

Apply Classic Sudoku rules

Identical digits do not touch each other diagonally.



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



# Sudoku XV

6 points

Apply Classic Sudoku rules.

All adjacent cells with two digits summing to 5 are marked by V, while those summing to 10 are marked by X. All possible X and V are marked.



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



## Irregular Sudoku

4 points

Every digit from 1 through 7 has to appear exactly once in every row, every column, and outlined regions. Each outlined region has 7 cells and is marked by thick borders.



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

## Killer Sudoku

12 points

Apply Classic Sudoku rules.

The sum of digits in cells inside every cage must equal the total given for the cage at the upper left cell. Each digit in the cage must be unique.



20		6		34		20		
		11	6			13		
10			20				6	13
	9			24	28	21		
35								
							16	
15	8		23			13		
		16			11		16	
		11						

**I**

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

**J**

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

**K**

**L**

**M**

6	2	3	4	1	5	7
7	4	2	5	6	1	3
1	3	5	6	4	7	2
5	7	4	1	3	2	6
3	1	6	2	7	4	5
2	6	1	7	5	3	4
4	5	7	3	2	6	1

**N**

20	2	4	6	5	1	34	7	6	20	3	9	8
6	8	11	3	6	4	2	9	13	5	7	1	
10	9	7	1	20	5	3	8	4	6	2	13	6
1	9	3	2	6	24	8	28	21	9	4	7	
35	5	6	4	7	9	2	1	8	3			
7	9	8	3	1	4	6	16	5	2			
15	8	1	6	23	8	5	7	13	2	3	9	
3	2	16	7	9	4	11	1	8	16	6	5	
8	5	11	9	2	6	3	7	1	4			

**O**

**P**