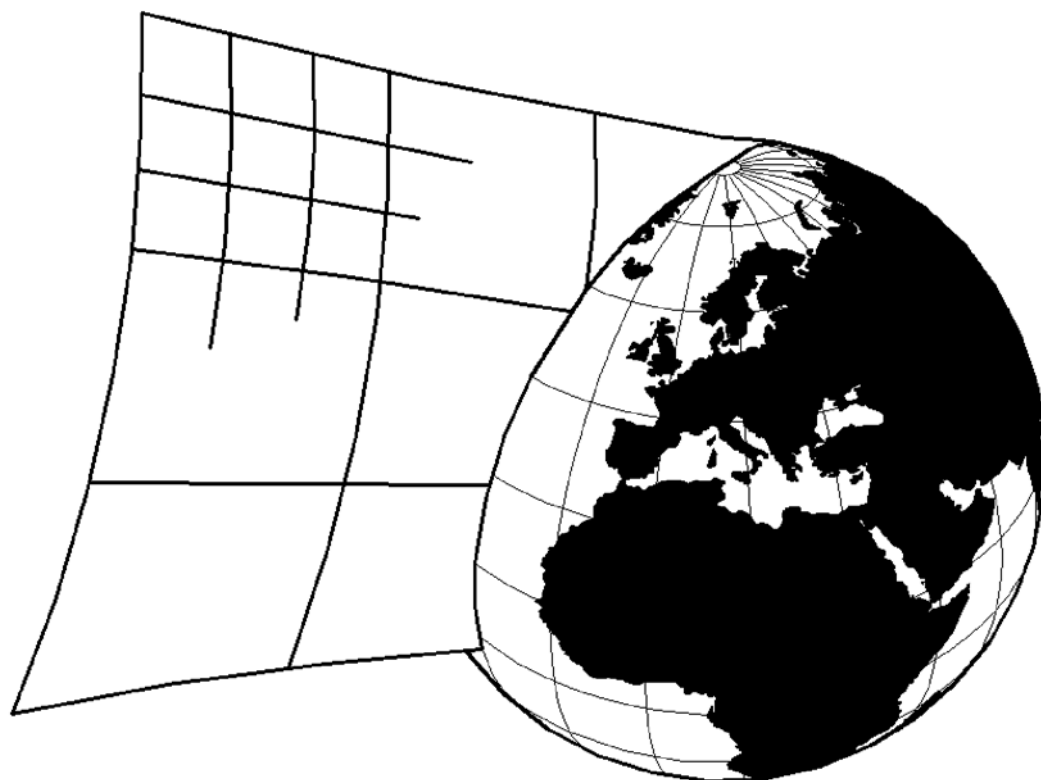


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Competition puzzles



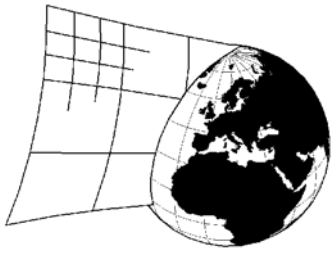
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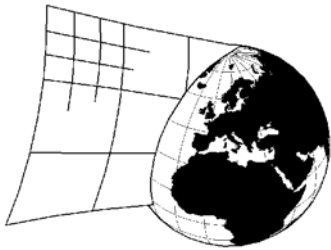
Classic Sudoku (7 points)

Write a single number from 1 to 9 in each cell so that each number appears exactly once in every row, column, and bolded 3x3 box.

2
▽

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

△



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First Seen Even-odd Sudoku (17 points)

Write a single number from 1 to 9 in each cell so that each number appears exactly once in every row, column, and bolded 3x3 box. Numbers outside the grid show the sum of the first seen even and the first seen odd number in corresponding row/column.

Example:

	3	9	11	5				
5							4	
7		5	4	6				
15		6					1	
9	6	2	3	5				

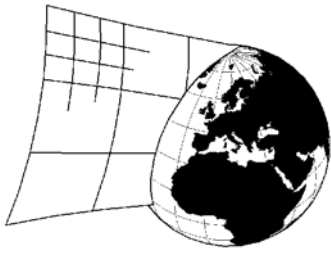
→

	3	9	11	5				
5	1	3	7	4				
7	2	5	4	6				
15	9	6	8	1				
9	6	2	3	5				



	3	7	11	13	9	5	11	15	7	
5										9
13		6							1	9
13			8		1		6			13
3				5		8				11
17			4		3		2			11
5				2		4				9
7			1		2		7			13
13		7							2	5
7										13
	13	9	7	13	15	7	7	11	11	
							△	△		

2 - 17



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No four in a grow Sudoku (12 points)

Write a single number from 1 to 9 in each cell so that each number appears exactly once in every row, column, and bolded 3x3 box. Nowhere in the grid the horizontal/vertical line of four constantly increasing/decreasing numbers can appear. - example 1269, 9531 etc.

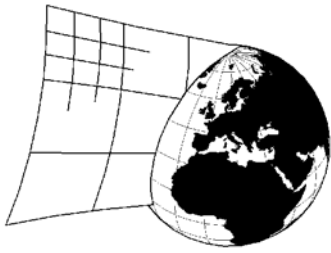
					2		9	
2				7				
		1	6			8		
9			1		8	4		
	1			6			5	
		8	5		7			2
		7			9	2		
				2				4
	4		7					

1
▽

2
▽

△

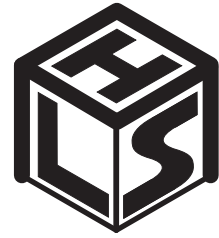
△



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Killer in disguise Sudoku (18 points)

Write a single number from 1 to 9 in each cell so that each number appears exactly once in every row, column, and bolded 3x3 box. Each digit in the cage must be unique. All the sets of digits in the dotted cages should be different. The sum of digits for some cages is given.

Example:

8 ¹⁵		5	4
	2		
1		9	15
4	1	6	

→

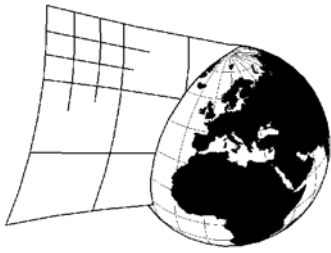
8 ¹⁵	6	5	4
7	2	4	3 ⁵⁸
1	9	3	6 ¹⁵
4	1	6	9



¹¹		1		5		6		
	8			¹⁰			2	
3		⁸					¹⁵	5
				3				
9			5		6		⁶	2
	⁵			9				
6		⁹						3
	3				¹²		6	
		4		6		8		



5 - 17



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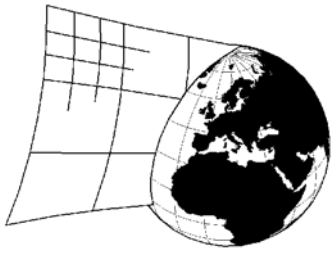


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Oddsum Loop Sudoku (16 points)

Write a single number from 1 to 9 in each cell so that each number appears exactly once in every row, column, and bolded 3x3 box. Draw the single closed loop going along the grid lines. It can freely go on the outer border but inside the grid it can only go between the cells where two numbers with their odd total are placed. Some fragments of the loop are given.

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



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Magnetic Sudoku (24 points)

Write a single number from 1 to 9 in each cell so that each number appears exactly once in every row, column, and bolded 3x3 box. Two-cell blocks containing digits of the same parity are non-magnetic; two-cell blocks containing digits of different parity are magnetic; one-cell blocks can be either magnetic or non-magnetic. Magnetic blocks can share sides only by the digits of different parity. Numbers outside the grid show the amount of even/odd digits on magnetic blocks for each row/column. Some non-magnetic blocks are given (grey blocks).

Example:

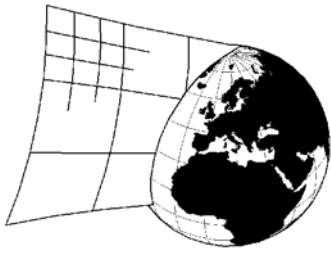
	3		2
	5	4	7
8	6		
1	2	3	

↓

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

1 ▷									2	3 ▷		
			7	4		1	6				2	
		5			9			4			2	
		8						9			3	
			4		2		3				1	
	2 ▷		9					1			1	3 ▷
		3			6			2			2	
			9	1		2	8				2	
					7						1	2
	1	1	3	1	2	2	2	3	2	O		
	2	2	4	1	2	3	0	4	2	E		

9 - 17



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Tripod Sudoku (30 points)

Place in the grid digits from 1 to 9, so that each row, column and outlined area contains each digit exactly once. You have to find the outlines of the areas. All the nodes where three lines meet are marked with the black dots. There are no nodes where four lines meet. Some fragments of the outlined areas are given.

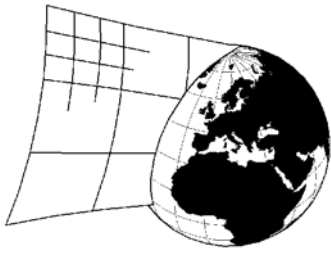
Example:

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



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

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



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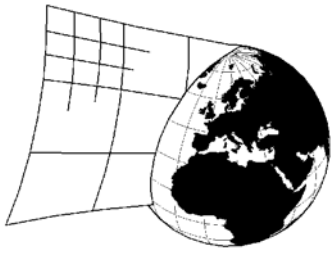
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Twin Detector Sudoku (15 points)

Write a single number from 1 to 9 in each cell so that each number appears exactly once in every row, column, and bolded 3x3 box. Wherever the number in the cell equals to a total of any amount of the closest numbers in any direction - there is an arrow pointing to that direction.

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

11 - 17



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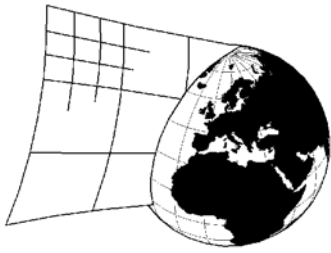
Surprise (15 points)

Write a single number from 1 to 9 in each cell so that each number appears exactly once in every row, column, and bolded 3x3 box. The number in a circle is the sum of the digits which are covered by its arrow.

2
▽

	5		○		○	—	3	
6		↗	↓	9			↘	7
			↓		3			
↖		7	↘		9		4	
○	3			2			5	○
4		5		↖		3		↖
1 ▽	↖		9		↓		↖	▽
8				3		↖		9
	9	—	○		○		8	
								△

12 - 17



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Five Pair Sudoku (11 points)

Write a single number from 1 to 9 in each cell so that each number appears exactly once in every row, column, and bolded 3x3 box.

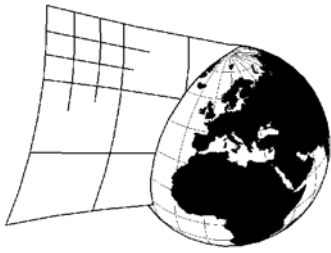
The 10-cell grey areas inside the grid should contain two sets of five digits.

1
2
▽
▽

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

△
△

14 - 17



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Alternative Sudoku (15 points)

Write a single number from 1 to 9 in each cell so that each number appears exactly once in every row, column, and bolded 3x3 box. The number staying between two cells should end up in one of those cells.

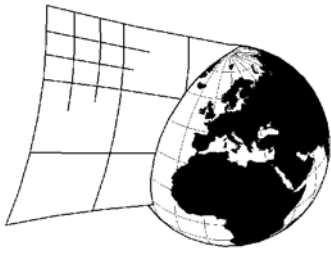
1 **2**

▽ ▽

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

△ △

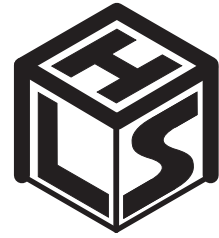
15 - 17



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Slitherlink Sudoku (28 points)

Write a single number from 0 to 8 in each cell so that each number appears exactly once in every row, column, and bolded 3x3 box.

All numbers 0 to 3 are the clues for the Slitherlink (Fences) puzzle.

Fences: Draw closed line going through grid lines. The line doesn't have to go through all the cells. The clue numbers indicate how many lines surround the cell. The loop must not have any branches and must not cross itself.

Example:

8		1	3
3	0	5	6
7			4
6	3	4	0

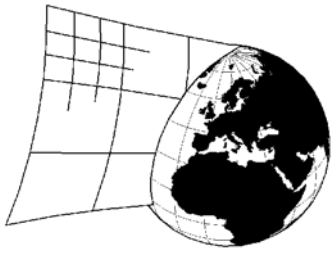


8	4	1	3
3	0	5	6
7	2	6	4
6	3	4	0

2
▽

			4		5			8	
	4			0			6		
1 ▷			7		2			▷	
	3		4			5		6	
		5		4			0		
	6		0				1		3
			8		4				
		1		2			3		
	4			5		1			

△



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Numberlink Sudoku (23 points)

Write a single number from 1 to 9 in each cell so that each number appears exactly once in every row, column, and bolded 3x3 box. 18 circles in the grid should be filled with two sets of numbers 1 to 9. Circles with the same number X should be connected by the line going (only horizontally/vertically) through exactly X cells. Along each connecting line all the numbers should be different. Lines cannot cross, branch off, or go through the cells with circles.

Example:

8		1	9
2	4	5	○
7	9		8
6	○	3	5



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



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



17 - 17