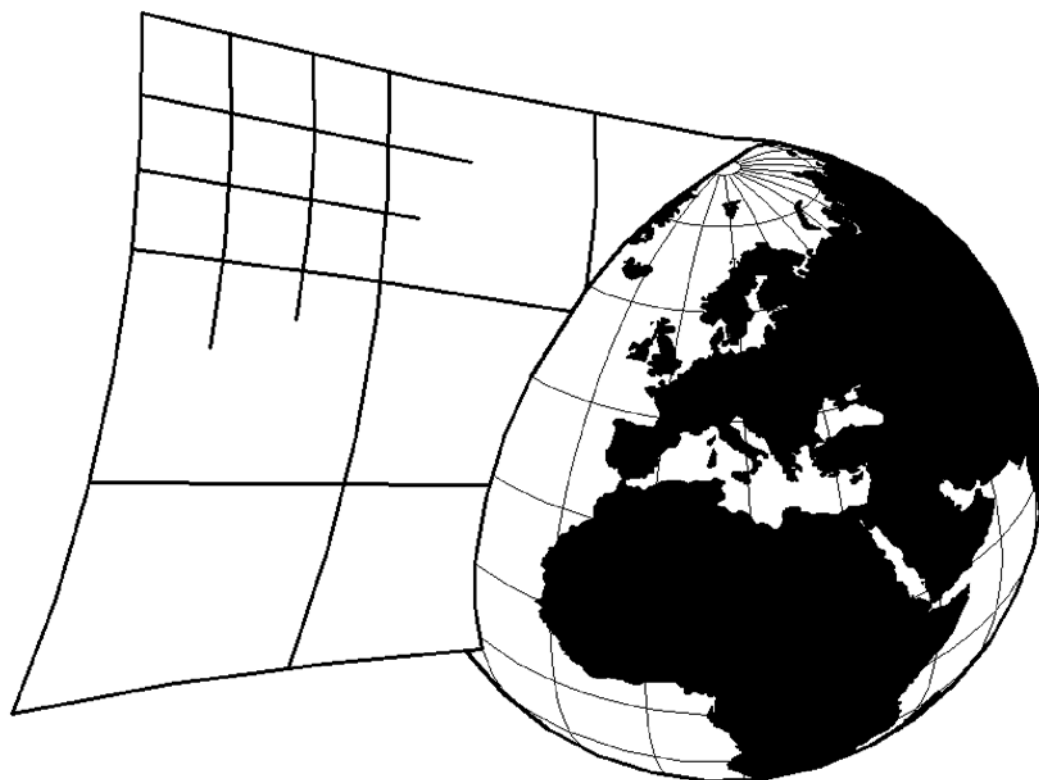


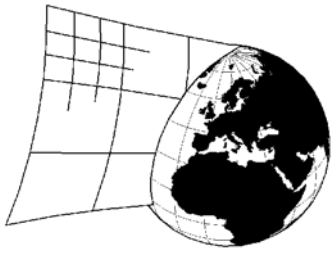
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Competition puzzles



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6



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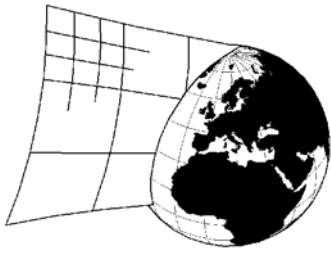
6

Classic 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.

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

1 - 15



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6

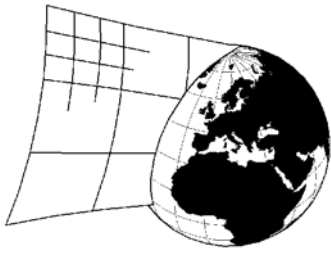
Classic Sudoku (10 points)

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 task fulfils the conditions required to break the world record.

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

2 - 15



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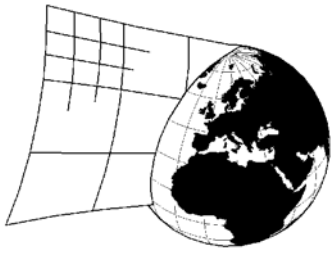
6

Diagonal Sudoku (14 points)

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

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

3 - 15



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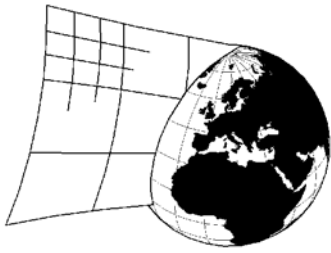
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6

Irregular Sudoku (21 points)

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

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



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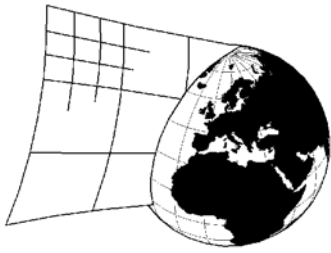
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6

Extra Region (14 points)

Place numbers in the grid so that every row, column and 3x3 bolded box contain the numbers 1 to 9. Each group of nine coloured cells must also contain the numbers 1 to 9.

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



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6

Antiknight (16 points)

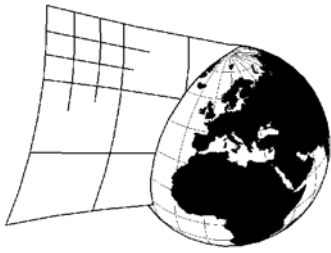
Fill in the grid so that every row, every column, and every 3x3 bolded box contains the numbers 1 to 9. The same numbers are not chess-knight move connected.

2
▽

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

△

6 - 15



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6

Sequences (14 points)

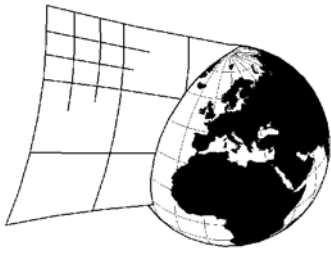
Write a single number from 1 to 9 in each cell so that each number appears exactly once in every row, column, and bolded 3x3 box. The numbers along the grey lines are arithmetic sequences (e. g. 4-5-6-7 or 5-3-1). It means that the difference between the following digits along the line is the same and the digits aren't repeated there.

	9				4	
5						8
				9	2	
					5	
		5				
		3	1			
4						5
	8				1	

Grey lines indicate arithmetic sequences:

- Row 1: (1,2)=9, (1,5)=4
- Row 2: (2,1)=5, (2,7)=8
- Row 3: (3,4)=9, (3,5)=2
- Row 4: (4,6)=5
- Row 5: (5,3)=5
- Row 6: (6,2)=3, (6,3)=1
- Row 7: (7,1)=4, (7,7)=5
- Row 8: (8,2)=8, (8,6)=1

Grey lines also connect cells in a path: (1,2) to (2,2) to (2,3) to (3,3) to (3,4) to (4,4) to (4,5) to (5,5) to (5,6) to (6,6) to (6,7) to (7,7) to (7,6) to (7,5) to (7,4) to (7,3) to (7,2) to (7,1) to (8,1) to (8,2) to (8,3) to (8,4) to (8,5) to (8,6) to (8,7).



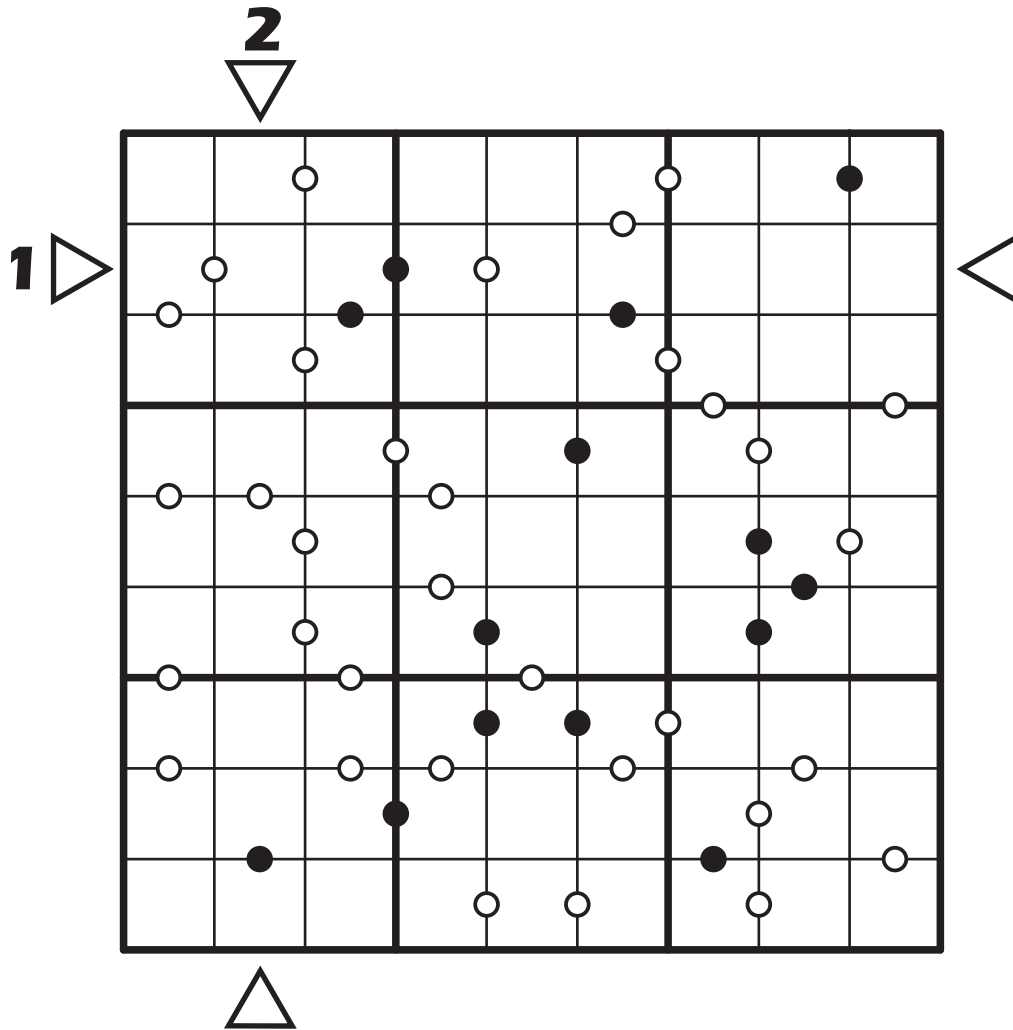
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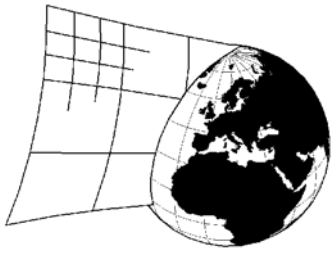
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6

Kropki (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. The white dots indicate all the neighbouring cells in which the difference between the two cells is 1. The black dots indicate all the neighbouring cells in which one digit is the double of the other one. The dot between two cells with digits 1 and 2 has any of these two dots.





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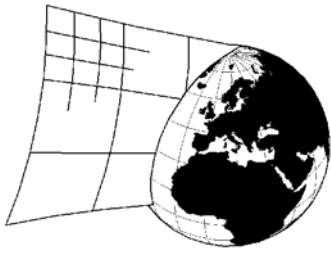
6

All-Even-All-Odd (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.

Marked cells in a 3x3 box contain numbers of the same parity, either even or odd. Careful! The parity in boxes doesn't have to be the same.

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



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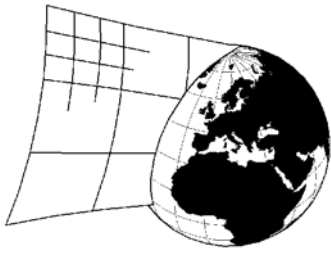
Surprise (26 points)



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



10 - 15



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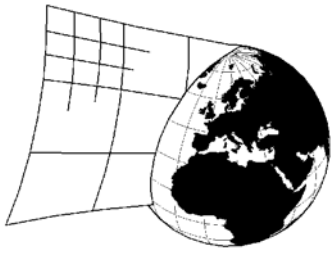
6

Clock-Faces (27 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 around the white clock-face are ordered by the size in the clockwise direction. Numbers around the black clock-face are ordered by the size in the anticlockwise direction. All of the clock-faces are indicated.

	2					6	7
	○		●			○	
	●			3		○	●
1	▷					1	
			○			○	●
			8				
	●	9	○		○		●
2	▷				●	2	
			●				
			8				
	○			○		○	
	3			5			
	9	1					●
							5



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6

More-Less Sudoku (28 points)

Write a single number 1 to 8 so that each number appears exactly once in every row and column.

In marked regions that contain more than 8 cells, there is each number at least once.

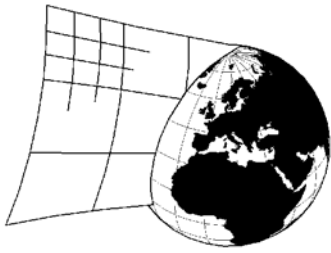
In marked regions that contain less than 8 cells, there is each number at most once.

2
▽

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

△

12 - 15



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6

Arrow 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.
Some arrows appear in the grid; the digits in the circled cells must equal the sum of all digits along the path that the arrow travels.

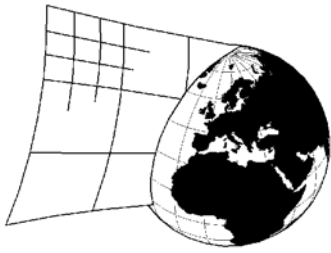
The grid is a 9x9 grid with bolded 3x3 boxes. The numbers in the grid are as follows:

		8		5				
			8		7			
7								
3								4
5								3
			9		8			6
			6					
					3			

Arrows and circled cells are placed as follows:

- Row 1: Circle at (1,9) with arrows pointing left, down, and down-left.
- Row 2: Circle at (2,3) with arrows pointing up-left, up, and up-right.
- Row 3: Circle at (3,2) with arrows pointing left, right, and down.
- Row 4: Circle at (4,3) with arrows pointing left, right, and down.
- Row 5: Circle at (5,2) with arrows pointing left, right, and down.
- Row 6: Circle at (6,6) with arrows pointing up, up-left, and up-right.
- Row 7: Circle at (7,1) with arrows pointing up, right, and down-right.
- Row 8: Circle at (8,7) with arrows pointing up, left, and left-up.
- Row 9: Circle at (9,6) with arrows pointing up, left, and left-up.

External clues: A '1' with a right-pointing arrow is at the top-left. A '2' with a downward-pointing arrow is at the top-center. A triangle with a left-pointing arrow is at the top-right. A triangle with an upward-pointing arrow is at the bottom-center.



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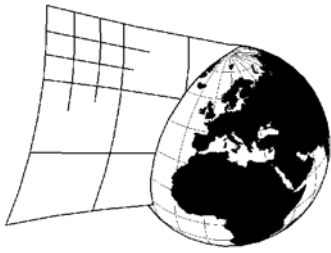
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Little Killer (35 points)

Write a single number from 1 to 9 in each cell so that each number appears exactly once in every row, column, diagonal, and bolded 3x3 box. The values around the grid give the sums in corresponding directions. (Numbers can repeat in these sums.)

			3						
				6					
								2	
1									
2	4								
				5					
					1				

Row sums (top): 9, 7, 15, 21, 22, 30, 29, 37
 Column sums (left): 35, 40, 35, 15, 17, 15, 15, 5
 Column sums (right): 8, 12, 17, 11, 19, 31, 41, 44
 Row sums (bottom): 46, 42, 33, 24, 22, 13, 4, 6



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6

Decimal Killer (25 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 value in the corner of each cage gives the sum of numbers in the cage but the last digit of the sum is hidden. (The numbers in one cage are different).

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

15 - 15