



WPF
SUDOKUGRANDPRIX
2013

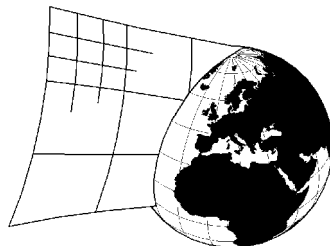
Competition puzzles

SUDOKUCUP 9



HALAS
sudokualogika.cz

**Tournament
of HALAS
league**



SUDOKUCUP.COM

Partners:



MANTILA
R E P R O

Spedrapid

1) Classic Sudoku 12x12 (17 points)

Write a single number from 1 to 12 in each cell so that each number appears exactly once in every row, column, and bolded 3x4 box.

2
▽

7				1					6	4	5
10				2	7	11	3		9		
9		3		5	6			11	10	2	7
	9		3		11	5	6	1	4		
	8		4		12				11		
1 ▷					1						◁
								4	5	12	
	7	2	8			9		10			1
6					3	1		9	7	8	
8		10	1			7		12			
4			2			12		6			
	11	6	7		8	2	4				

△

2a - 2f) Classic Sudoku 6x6 (1+1+1+1+1+1 point)

Write a single number from 1 to 6 in each cell so that each number appears exactly once in every row, column, and bolded 2x3 box.

2a)

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

2b)

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

2c)

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

2d)

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

2e)

1	1			2	
				5	
	4				6
2	5			1	
					4
	6				

2f)

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

3) Classic Sudoku (3 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.

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

4) 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.

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

5) Fortress Sudoku (16 points)

Place a digit from 1 to 9 into each of the empty squares so that each digit appears exactly once in each of the rows, columns, and bolded 3x3 box. There is a fortress on the playground formed by coloured cells. The coloured cells must be greater than the horizontally or vertically adjacent white cells.

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

6) Antiknight (11 points)

Write a single number from 1 to 9 in each cell such that each number appears exactly once in every row, column, and bolded 3x3 box. The same numbers are not chess-knight move connected.

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

7) Quadruple (14 points)

Write a single number from 1 to 9 in each cell such that each number appears exactly once in every row, column, and bolded 3x3 box. Each set of four small digits in the intersection of two lines indicate the digits that are in the four adjacent cells.

2
▽

						1479		
		1279			1457			
	3478					3567		
					6699			
1479							1248	
				2568				
	3469							
		2335				1468	1679	

▽

1 ▷

▷

8) Gappy Consecutive Sudoku (21 points)

Place a digit from 1 to 9 into each of the empty squares so that each digit appears exactly once in each of the rows, columns, 3x3 box. Every outlined area contains the set of consecutive numbers with one in-between number missing. The missing number is indicated for every area.

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

1 ▷
2 ▷

▷
▷

9) Sudoku extraregions (18 points)

Write a single number from 1 to 9 in each cell such that each number appears exactly once in every row, column, and bolded 3x3 box. The grey filled cells form additional regions that also contain 1-9 exactly once.

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

10) Bent Diagonal (15 points)

Write a single number from 1 to 9 in each cell such that each number appears exactly once in every row, column, and bolded 3x3 box. There are four bent diagonals where each number can appear exactly once.

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

11) Sudokuro (21 points)

Fill the grid with digits 1 to 9. The digits can't be repeated in rows, columns, or 11 marked shapes. The numbers outside and inside the grid set the sums in horizontal and vertical directions.

Example:

	3	16	19	
19	2	9	8	10
15	1	7	3	4
		11	6	5
10	3	4	2	1

2
▽

	17	25		5	39			22		13	28
16			12			17					
22			33			11				17	
							39			27	
12				31							
	19			16							
	9					26					
			33			34					
			14							31	
37								8			
								23			9
	18				27						
	19				6						
18				10					17		
				24					15		
4			41								
			12								8
		16						27			
30					9			6			

▽

12) Surprise (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. Ignore the gaps between some rows and columns.

Clues: **2** (above row 1, col 2), **3** (above row 1, col 5), **1** (left of row 4, col 1), **1** (below row 8, col 4), **2** (below row 8, col 6)

13) Killer 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. The sum of the cells must equal the total given for the cage in the upper left of the cage. Each digit in the cage must be unique.

10	7		20		18		22
	16	15	9				
				13			13
	6	27	13	15		19	
18			17				
			13	3	15		
		3		30		15	
24				18		5	
	11			5		5	

14) Twin detector sudoku (20 points)

Place a digit from 1 to 9 into each of the empty squares so that each digit appears exactly once in each of the rows, columns, 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.

			4		2		
8							6
5							1
			2		5		

15) XV sudoku (10 points)

Place a digit from 1 to 9 into each of the empty squares so that each digit appears exactly once in each of the rows, columns, 3x3 box. All adjacent cells with two digits summing to 5 are marked by V, while those summing to 10 are marked by X. The cells edges which do not contain a V or an X cannot have digits summing to 5 or 10.

1	2	x	v		x	6
	x	v	x	v	x	
		x	v	x	v	x
2	v	v				
	x		x	v	x	
		x	x	v	v	
		x	x	v	v	
			x	x	v	v
	7	x	v	x		1

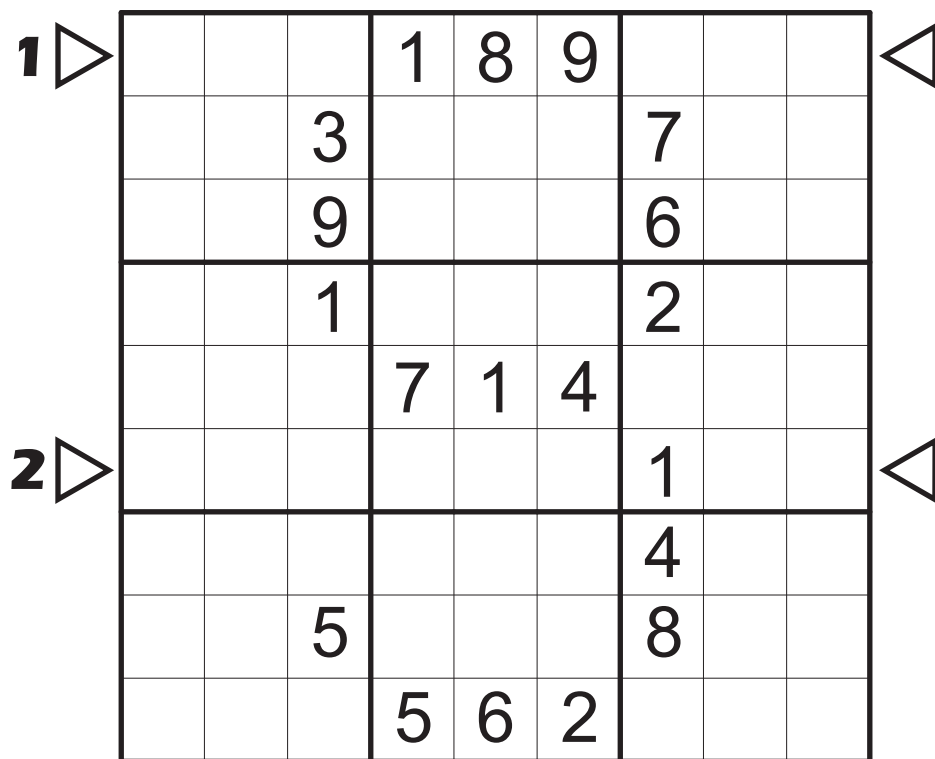
16) The Greater (11 points)

Write a single number from 1 to 9 in each cell such that each number appears exactly once in every row, column, and bolded 3x3 box. The small number between two cells stands for the greater of the two adjacent digits.

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

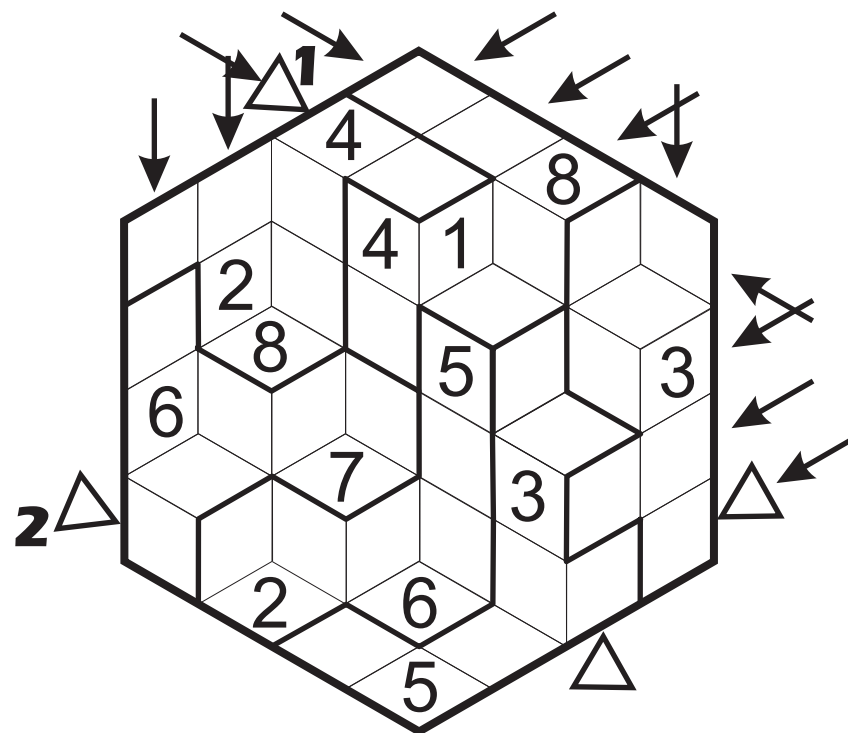
17) Notwo Sudoku (17 points)

Write a single number from 1 to 9 in each cell such that each number appears exactly once in every row, column, and bolded 3x3 box. Two vertically or horizontally adjacent cells cannot contain digits whose difference is 2.



18) Cubic (16 points)

Fill each cell of the grid with digits 1 to 8 to appear only once in every of 12 lines and in every of 6 shaped regions.



19) Mathdoku (21 points)

Write a single number from 1 to 9 in each cell such that each number appears exactly once in every row, column, and the irregularly shaped regions. For more in each of nine irregularly shaped regions there are subsidiary numbers between two cells. These numbers are the results of binary operations (addition, subtraction, multiplication, or division) between the two cells. In each region there must be used all the four binary operations.

8 [⊗] ₃₂	4	9 [⊕] ₁₄	2
3 [⊙] ₂	6	5	
	1 [⊖] ₆	7	

Example: between the cells there is number 32 multiplication is only acceptable operation, that's why the candidates of the two cells are digits 4 and 8.

20) Isosudoku (21 points)

Write a single digit from 1 to 9 into each cell so that no digit can be repeated in marked areas and rows of three directions.