

WPF
SUDOKU/PUZZLE
GRAND PRIX
2014

WPF SUDOKU GP 2014

ROUND **2**

Puzzle authors:

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Classic sudoku by Nikola Živanović

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Organised by



WORLD PUZZLE FEDERATION



1 Classic Sudoku
(6 points)

Place a digit from 1 to 6 in each empty cell so that each digit appears exactly once in each row, column and outlined 3x2 region.

Answer Key: Enter the 2nd row of digits, followed by the 6th row of digits.

1			2		
					3
	4		5		
					6
6		4			
				2	

2 Classic Sudoku
(60 points)

Place a digit from 1 to 9 in each empty cell so that each digit appears exactly once in each row, column and outlined 3x3 region.

Answer Key: Enter the 1st row of digits, followed by the 5th row of digits.

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



3 Classic Sudoku
(24 points)

Place a digit from 1 to 9 in each empty cell so that each digit appears exactly once in each row, column and outlined 3x3 region.

Answer Key: Enter the 5th row of digits, followed by the 9th row of digits.

3A →

3B →

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

4 Classic Sudoku
(27 points)

Place a digit from 1 to 9 in each empty cell so that each digit appears exactly once in each row, column and outlined 3x3 region.

Answer Key: Enter the 1st row of digits, followed by the 4th row of digits.

4A →

4B →

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



5 Classic Sudoku

(24 points)

Place a digit from 1 to 9 in each empty cell so that each digit appears exactly once in each row, column and outlined 3x3 region.

Answer Key: Enter the 4th row of digits, followed by the 9th row of digits.

5A →

5B →

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

6 Classic Sudoku

(39 points)

Place a digit from 1 to 9 in each empty cell so that each digit appears exactly once in each row, column and outlined 3x3 region.

Answer Key: Enter the 3rd row of digits, followed by the 9th row of digits.

6A →

6B →

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



7 Quadruple Sudoku

(30 points)

Apply Classic Sudoku rules. Additionally, sets of four digits are labeled at some grid intersections. These sets indicate the numbers in the four adjacent grid cells.

7A →

Answer Key: Enter the 2nd row of digits, followed by the 5th row of digits.

7B →

9								
			34 67					23 59
				23 68				
	15 57						24 47	
							26 67	
	33 78			16 79				
			12 58				13 89	
							33 45	
4								7

8 Ratio Sudoku

(36 points)

Apply Classic Sudoku rules. Additionally, clues between two cells give the ratio of the digits. For example 3/4 can stand for the following combinations of numbers in the adjacent cells: 3-4, 6-8, 4-3 and 8-6.

8A →

Answer Key: Enter the 5th row of digits, followed by the 7th row of digits.

8B →

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



9 Outside Sudoku

(30 points)

Apply Classic Sudoku rules. Additionally, digits given outside the grid must appear in the first region (three cells) in that row or column.

Answer Key: Enter the 8th row of digits, followed by the 5th column of digits.

9B ↓

6	4	2	4	5
8	5	7	7	6

9A →

3

2 6 7

5 6

5 7

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

10 Kropki Sudoku

(45 points)

Apply Classic Sudoku rules. Additionally, if the absolute difference between two digits in neighboring cells equals 1, then those cells are separated by a white dot. If a digit in a cell is half of the digit in a neighboring cell, then those cells are separated by a black dot. All possible dots are given, but the dot between 1 and 2 can be either white or black.

Answer Key: Enter the 1st row of digits, followed by the 8th row of digits.

10A →

○	○	○	●	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○

10B →

○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○

11 Diagonally Consecutive Sudoku

(60 points)

Apply Classic Sudoku rules. Additionally, all pairs of diagonally adjacent cells containing consecutive digits are marked by a line.

11A →

Answer Key: Enter the 2nd row of digits, followed by the 8th row of digits.

11B →

	8							
	6			8				
						6		8
			8					
		8	6					
6								
	3				6			
							8	6

12 Arrow Sudoku

(63 points)

Apply Classic Sudoku rules. Additionally, some arrows are in the grid. The digit in the circle at the top of each arrow must be equal to the sum of the digits that appear along the path of the arrow. Digits can repeat within an arrow shape.

12A →

Answer Key: Enter the 2nd row of digits, followed by the 9th row of digits.

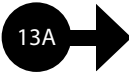
12B →

○					○			→
9	↓						○	
	○			4			○	
↖		6		○				2
○	↘							
○		8	6				↖	↗
	○					4	↓	
							○	○

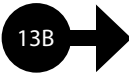


13 Before 1 – After 9 Sudoku
(90 points)

Apply Classic Sudoku rules. Additionally, numbers outside the grid indicate the sum of all digits before the digit 1 in that row/column or after the digit 9 in that row/column, going from left to right and from top to bottom.



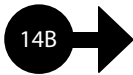
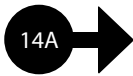
Answer Key: Enter the 2nd row of digits, followed by the 6th row of digits.



BEFORE 1		7		26	17		13		27	
	AFTER 9	13		25	28				26	
	25									
28	4									
	15									
	37									
8	8									
	21									
22										

14 Square Numbers Sudoku
(66 points)

Apply Classic Sudoku rules. Additionally, all **two-digit** square numbers that can be read from left to right or from top to bottom are marked by an arrow.



Answer Key: Enter the 3rd row of digits, followed by the 4th row of digits.

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