



WPF
SUDOKU/PUZZLE
GRAND PRIX
2016

WPF SUDOKU GP 2016 INSTRUCTION **BOOKLET**

ROUND **7**

Puzzle authors:

Italy

argio-logic.net

Gabriele Simionato

Giulia Franceschini

nonzero

Organised by



WORLD PUZZLE FEDERATION



General Answer Format

Each Sudoku has two marked rows or columns. You need to submit all digits in the corresponding directions, from left to right or from top to bottom.

In the example to the right, the two answer keys are:

1A: 367594218

1B: 283749165

All puzzles will use digits 1-9 in the submission.

	5	9	1	8	6	2	4	7	3
1A →	3	6	7	5	9	4	2	1	8
	8	2	4	1	7	3	6	5	9
	1	3	2	9	8	5	7	4	6
	6	4	5	3	1	7	9	8	2
	9	7	8	4	2	6	5	3	1
	7	5	9	6	3	1	8	2	4
1B →	2	8	3	7	4	9	1	6	5
	4	1	6	2	5	8	3	9	7

Submission Page

<http://gp.worldpuzzle.org/content/sudoku-gp>

Version

This is version 1 of the instruction booklet.

Points Distribution

1	Classic Sudoku	37
2	Classic Sudoku	38
3	Classic Sudoku	39
4	Classic Sudoku	40
5	Classic Sudoku	51
6	Diagonal Windoku	53
7	Irregular Sudoku	73
8	Symmetric Unequal Sudoku	58
9	Outside Sudoku	48
10	Speed-Up Sudoku	44
11	Rossini Sudoku	57
12	Dragon Sudoku	31
13	Pandigital Sudoku	31
TOTAL:		600



1-5 Classic Sudoku

37, 38, 39, 40, 51 points

Place a number from 1-9 in each empty cell in the grid such that each row, column and marked 3×3 box contains each number exactly once.

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

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

6 Diagonal Windoku

53 points

Apply classic sudoku rules.

Each of the four shaded 3×3 regions must also contain each number from 1-9 exactly once. Each marked diagonal must also contain each number from 1-9 exactly once.

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

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



7 Irregular Sudoku

73 points

Place a number from 1-9 in each empty cell in the grid such that each row, column and marked 9-cell region contains each number exactly once.

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

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

8 Symmetric Unequal Sudoku

58 points

Apply classic sudoku rules.

The numbers placed in any pair of cells related by 180 degree rotational symmetry (e.g. R1C2 and R9C8) must not repeat.

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

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



9 Outside Sudoku

48 points

Apply classic sudoku rules.

The numbers outside the grid must appear within the first three cells in the corresponding direction.

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

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

10 Speed-Up Sudoku

44 points

Apply classic sudoku rules.

A number placed along each directed arrow must be greater than or equal to the previous number along the arrow.

3								
							9	
					8			
		1					7	
9								

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



11 Rossini Sudoku

57 points

Apply classic sudoku rules.

The arrows outside the grid indicate that the numbers placed in the first three cells in the corresponding direction form an increasing sequence in the same direction as the arrow. If there is no arrow, the first three numbers do not form an increasing sequence in either direction.

			4					
				9				
			3					
				8				
			2					
				7				

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

12 Dragon Sudoku

31 points

Apply classic sudoku rules.

Each 9 in the grid sees exactly 8 other cells in the 4 vertical and horizontal directions before a wall is seen. Numbers placed in each of these sets of 8 cells must not repeat.

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

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



13 Pandigital Sudoku

31 points

Apply classic sudoku rules.

The numbers placed in each shaded region must form the given equations when they are read as the corresponding n -digit numbers.

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

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