

# WPF SUDOKU GP 2016 INSTRUCTION BOOKLET



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#### **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
	တ	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**

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







#### 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  $3\times3$  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  $3\times3$  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	X	9	6		
				1				
2				4				9
7								9
	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	တ	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	თ
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



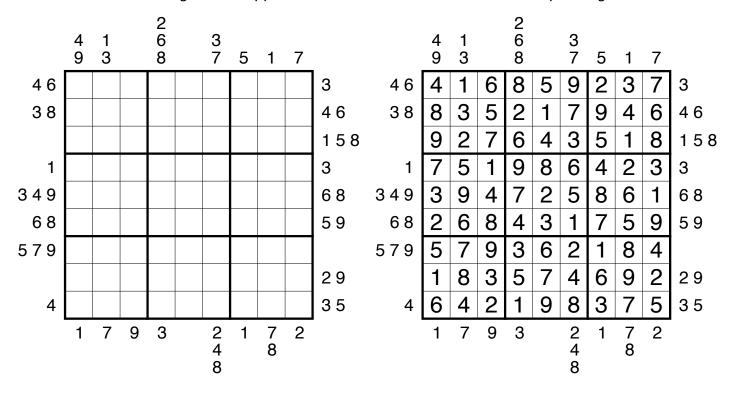




9 Outside Sudoku 48 points

Apply classic sudoku rules.

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



## 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					<b>*</b>	
					K	
					တ	Y
			K	8		
1						
	<b>—</b>	1		K	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	တ	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	<b>)</b>	2	3



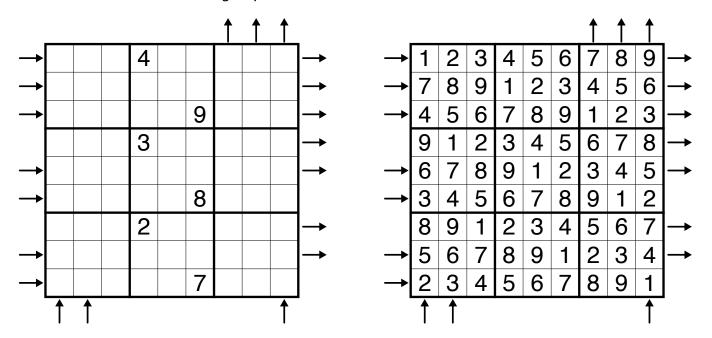




11 Rossini Sudoku 57 points

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.



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			<b>6</b>
9						Г		
			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			<b>(+)</b>		7	
7								1
				2				
		3	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	<u>ට</u>	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	თ	တ	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