



WPF
SUDOKU/PUZZLE
GRAND PRIX
2017

WPF SUDOKU GP 2017
INSTRUCTION **BOOKLET**

ROUND 3

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Organised by



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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, 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:

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TOTAL: 600

1-5 Classic Sudoku

Place a number from 1-9 in each empty cell in the grid such that each row, column and marked 3x3 box contains each number exactly once.

Example

		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		

Solution

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 Overlapping Sudoku

Apply classic sudoku rules. Additionally two grids are overlapping.

Note: Only in this puzzle answer keys consists of 10 numbers.

Example

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

Solution

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

7 Diagonal Sudoku

Apply classic sudoku rules. Each marked diagonal must also contain each number from 1-9 exactly once.

Example

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

Solution

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

8 Odd Sudoku

Apply classic sudoku rules. Numbers placed in shaded cells must be odd.

Example

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

Solution

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

9 Nonconsecutive Sudoku

Apply classic sudoku rules. Numbers placed in adjacent cells must not be consecutive.

Example

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

Solution

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

10 Fortress Sudoku

Apply classic sudoku rules. A number placed in a shaded cell must be strictly greater than numbers placed in adjacent unshaded cells.

Example

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

Solution

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

11 Mathdoku

Apply classic sudoku rules. In a box 4 results of 4 mathematical operations are given, one of them is sum, one is difference, one is multiple and one is division of the two neighbouring digits.

Example

12						6		
12		6	6	6	6	3		6
				6				
	6		6			6		
		6	6	6			6	
6		6					6	
6			6	6		6	6	
						6		
6		12		6	6			
6	6			6				12
			6	6				12

Solution

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

12 Pointing Differents Sudoku

Apply classic sudoku rules. Numbers outside the grid indicate the number of different numbers placed in the cells in the corresponding diagonal direction.

Example

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

Solution

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

13 Fuzzy Arrows Sudoku

Apply classic sudoku rules. Exactly one circle should be added on each grey line. One or two arrows should be drawn at all loose ends of each grey line then. Finally solve standard arrows sudoku. A number placed in a cell with a circle must be the sum of the numbers placed in cells the adjoining arrow passes through. Numbers may repeat on arrows.

Example

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

Solution

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

14 Lonely Number Sudoku

Apply classic sudoku rules. There are 80 numbers in the grid that fulfill a following condition: each of these happy numbers has a consecutive friend in a cell sharing an edge with it. There is exactly one lonely number in the grid that doesn't have a consecutive friend next to it.

Example

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

Solution

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