



WPF
SUDOKU/PUZZLE
GRAND PRIX
2018

WPF SUDOKU GP 2018
INSTRUCTION **BOOKLET**

ROUND 1

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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, the two answer keys are:

1A: 367594218

1B: 283749165

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

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

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

1-6 Classic Sudoku

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

7 Odd Sudoku

Apply classic sudoku rules. Digits 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

8 No Knight Step Sudoku

Apply classic sudoku rules. Digits placed in cells connected by a chess Knight's move must be different.

Example

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

Solution

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

9 Magic Squares Sudoku

Apply classic sudoku rules. Three of the given 3x3 blocks are magic squares, which means that the sum of the digits on both diagonals, the three horizontal lines of three cells and the three vertical lines of three cells is the same.

Example

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

Solution

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

10 Irregular Sudoku

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

Example

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

Solution

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

11 Even Sandwich Sudoku

Apply classic sudoku rules. The clues outside the grid indicate all digits (not necessarily in the given order) which have two even digits as immediate neighbours in the corresponding row or column. If a digit is not clued outside the grid, then its two immediate neighbours in that row or column must not both be even.

Example

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

Solution

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

12 Point to Next Sudoku

Apply classic sudoku rules. If a digit N is placed in a cell containing an arrow, then the digit N+1 must be placed in a cell pointed at by the arrow. Not all possible arrows are given.

Example

	↑		→	↑		←	↑	
		1	2	3	6	9	←	
	↓	8				3	↓	
	←	5				2	→	
	↑	6				5	↓	
	↓	2	4	7	1	8		
	→	←		↓	↓		→	

Solution

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

13 First Impression Sudoku

Apply classic sudoku rules. The digit in each shaded cell is greater than the digits in the first cell of the corresponding row (leftmost cell) and the first cell of the corresponding column (topmost cell). Not all possible cells are shaded.

Example

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

Solution

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

14 Sum Next to Nine Sudoku

Apply classic sudoku rules. Clues outside the grid indicate the sum of the immediate neighbours of the digit 9 in the corresponding row or column.

Example

	6	7	12	8	15	12	9	10	8
3	1								
4		2							
10			3						
5				4					
3					5				
10						6			
14							7		
15								8	
3									

Solution

	6	7	12	8	15	12	9	10	8
3	1	8	6	2	7	5	4	3	9
4	4	2	5	1	9	3	6	7	8
10	7	9	3	6	8	4	5	2	1
5	8	5	1	4	2	9	3	6	7
3	3	6	4	7	5	8	1	9	2
10	2	7	9	3	1	6	8	4	5
14	5	4	8	9	6	2	7	1	3
15	6	1	2	5	3	7	9	8	4
3	9	3	7	8	4	1	2	5	6