



WPF  
SUDOKU/PUZZLE  
**GRAND PRIX**  
2018

**WPF SUDOKU GP 2018**  
INSTRUCTION **BOOKLET**

**ROUND 6**

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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.

**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

### 1-5 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

### 6 Quadruple Sudoku

Apply classic sudoku rules. At some intersections of two crossing grid lines, a set of four digits is given. These digits must be placed in the four adjacent cells.

Example


Solution

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



**7 Expanded Sudoku**

Apply classic sudoku rules. The rows and columns continue over an empty space.

Example

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

Solution

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

**8 Toroidal 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. Some marked regions wrap around the grid from left to right and/or from top to bottom.

Example

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

Solution

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



**9 Inequality Sudoku**

Apply classic sudoku rules. If there is an inequality relation marked between two cells then the digits placed in the cells should obey the relation.

Example

	8	7	6					
1		<	>	4		>	<	
2		^		3		^		v
3	v		^	2	v		^	
	9	8	7		3	4	5	
		<	<	5		>	>	6
		^		6		v		7
	v		v	7		v		^
		>	<	7		<	>	8
					2	3	4	

Solution

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

**10 Windoku**

Apply classic sudoku rules. Each of the four shaded 3x3 regions must also contain each digit from 1-9 exactly once.

Example

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

Solution

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



**11 Round Off Sudoku**

Apply classic sudoku rules. Each cage clue indicates the value of rounding off the two-digit number within that cage to the nearest multiple of 10. Numbers ending in digits 1-4 are rounded down, while numbers ending in digits 5-9 are rounded up.

Example

	50		3			6	40	
6		20		4	5	80		
	7		70		30			
		8		60				
50			2		4		80	
			50			3		
		60		30			2	
	70		4	5	80			1
20			3			6	50	

Solution

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

**12 Sequences Sudoku**

Apply classic sudoku rules. The digits along each marked line have to be different and must form an arithmetic sequence in the correct order. Two straight lines may cross each other.

Example

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

Solution

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



**13 Anti-Consecutive Sudoku**

Apply classic sudoku rules. Adjacent cells marked with X cannot contain digits which are consecutive to each other. Not all such adjacent cells are marked. In other words, adjacent cells with no marking may or may not contain consecutive digits.

Example

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

Solution

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

**14 Min-Max Sudoku**

Apply classic sudoku rules. Each number outside the grid is the sum of the highest and lowest digit in the first three cells in the corresponding row or column.

Example

	6	11	15	10	8	13	6	9	13	
8										14
10				7						11
13										5
11										12
7				8						10
11										10
7										13
12				9						8
11										9
	15	8	8	8	11	11	15	6	9	

Solution

	6	11	15	10	8	13	6	9	13	
8	2	3	6	8	1	4	5	7	9	14
10	1	4	9	2	7	5	3	6	8	11
13	5	8	7	6	3	9	1	2	4	5
11	7	9	2	3	5	1	4	8	6	12
7	4	6	1	9	8	2	7	3	5	10
11	3	5	8	4	6	7	2	9	1	10
7	6	1	3	5	2	8	9	4	7	13
12	8	7	4	1	9	3	6	5	2	8
11	9	2	5	7	4	6	8	1	3	9
	15	8	8	8	11	11	15	6	9	