



WPF  
SUDOKU/PUZZLE  
**GRAND PRIX**  
2019

**WPF SUDOKU GP 2019**  
INSTRUCTION **BOOKLET**

**ROUND 6**

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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.

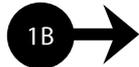


In the example, the two answer keys are:

1A: 367594218

1B: 283749165

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



**Submission Page:**

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

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

**Version:**

This is version 1 of the instruction booklet.

**Points:**

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TOTAL: 600



**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/Even Sudoku**

Apply classic sudoku rules. Digits in circles must be odd and digits in squares must be even.

Example

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

Solution

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

### 8 Thermo Sudoku

Apply classic sudoku rules. Starting at the "bulb", digits placed along each marked thermometer must form a strictly increasing sequence.

Example

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

Solution

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

### 9 Extra Regions Sudoku

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

Example

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

Solution

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



**10 Antiwindoku**

Apply classic sudoku rules. Each shaded region contains exactly 4 distinct digits.

Example

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

Solution

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

**11 Equal Sum Lines Sudoku**

Apply classic sudoku rules. All lines have the same sum of digits. Digits may repeat on lines.

Example

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

Solution

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

### 12 Fortress Sudoku

Apply classic sudoku rules. A digit placed in a shaded cell must be strictly greater than digits 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

### 13 Killer Sudoku

Apply classic sudoku rules. The digits placed in each marked cage must sum to the total given in its top-left. Digits must not repeat in cages.

Example

<sup>16</sup>				<sup>12</sup>				<sup>17</sup>
		<sup>29</sup>						
<sup>23</sup>						<sup>27</sup>		
								2
			4	2				<sup>10</sup>
2	<sup>12</sup>							
				<sup>10</sup>				
<sup>9</sup>								
		<sup>7</sup>					<sup>14</sup>	

Solution

<sup>16</sup>	7	9	4	3	<sup>15</sup>	5	6	1	2	8	
	1	3	<sup>29</sup>	5	7	2	8	6	4	9	
<sup>23</sup>	6	2	8	9	1	4	<sup>27</sup>	5	7	3	
	8	4	7	1	3	5	<sup>25</sup>	9	6	2	
	9	5	6	4	8	2	7	3	<sup>10</sup>	1	
	2	<sup>12</sup>	1	3	6	9	7	8	5	4	
	3	6	2	8	7	<sup>10</sup>	1	4	9	5	
<sup>9</sup>	4	8	9	5	6	3	2	1	7		
	5	7	<sup>7</sup>	1	2	4	9	3	<sup>14</sup>	8	6



### 14 Disguised Palindromes Sudoku

Apply classic sudoku rules. For each grey line, there must be at least one way of removing a digit so that the remaining digits on the line form a palindrome. It is permissible that the digits on the grey line also form a palindrome before the removal step.

Example

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

Solution

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