



WPF
SUDOKU/PUZZLE
GRAND PRIX
2019

WPF SUDOKU GP 2019
INSTRUCTION **BOOKLET**

ROUND 5

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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>

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:

1	Classic Sudoku	19
2	Classic Sudoku	22
3	Classic Sudoku	25
4	Classic Sudoku	27
5	Classic Sudoku	30
6	Classic Sudoku	32
7	Windoku	20
8	Multiplication Table Sudoku	30
9	Parquet Sudoku	44
10	Cross-Number Sudoku	47
11	Wheels Sudoku	52
12	Diagonal Irregular Sudoku	99
13	Substitution Sudoku	92
14	Parity Skyscrapers Sudoku	61

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 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

8 Multiplication Table Sudoku

Apply classic sudoku rules. For each marked square (containing four digits) the two bottom cells contain a two-digit number which is the product of the digits in the two upper cells. Not all possible 2x2 squared multiplications are necessarily given.

Example

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

Solution

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

9 Parquet Sudoku

Apply classic sudoku rules, except some cells are larger than others and belong in multiple rows and/or columns. Each digit appears exactly once in each of the following regions: the 12 rows, the 12 columns, and the nine outlined 4x4 regions.

Example

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

Solution

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

10 Cross-Number Sudoku

Apply classic sudoku rules. Place all the listed number sequences into shaded strips. Number sequences can be entered in any of four directions.

Example

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

- | | |
|------|------|
| 1327 | 1978 |
| 1357 | 2589 |
| 1382 | 2985 |
| 1453 | 3617 |
| 1473 | 4968 |
| 1578 | 4968 |
| 1654 | 6839 |

Solution

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

11 Wheels Sudoku

Apply classic sudoku rules. The digits on the circles have to be placed in the same circular order in the four cells that are touched by the circle. The circles may have to be rotated to the correct position by 90, 180 or 270 degrees.

Example

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

Solution

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

12 Diagonal 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. Each marked diagonal must also contain each digit from 1-9 exactly once.

Example

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

Solution

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

13 Substitution Sudoku

Apply classic sudoku rules. A cell with a letter must contain a digit whose mapped word contains the corresponding letter.

Example

U	H	R		N	E	F	N	
				I	G		T	O
	N	N		T	E	T	F	N
		H		O	E		V	
			O					
H	S				F	R	O	X
		S				I	S	U
V		W		X	F		V	H
			H		S	R		I

- 1 - ONE
- 2 - TWO
- 3 - THREE
- 4 - FOUR
- 5 - FIVE
- 6 - SIX
- 7 - SEVEN
- 8 - EIGHT
- 9 - NINE

Solution

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

14 Parity Skyscrapers Sudoku

Apply classic sudoku rules. Each digit represents the height of a building. The clues outside the grid indicate whether an odd (O) or even (E) number of buildings is visible from the corresponding direction. A taller building will hide any shorter buildings behind it.

Example

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

Solution

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