



WPF
SUDOKU/PUZZLE
GRAND PRIX
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WPF SUDOKU GP 2022
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.

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TOTAL: 600

1-5 Classic Sudoku

Place a digit from 1-9 in each empty cell in the grid such that each row, column and marked 3×3 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 Diagonal Sudoku

Apply classic sudoku rules. Every marked diagonal line contains each digit no more than 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

7 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

8 X-Sums Sudoku

Apply classic sudoku rules. The clues outside the grid indicate the sum of the first X digits placed in the corresponding direction, where X is equal to the first digit placed in that direction.

Example

	1	9	12	26	39	41	21	45	19	
1										26
42										11
29										30
37										23
20										40
45										9
17										31
10										1
14										45
	9	21	33	38	1	13	40	6	45	

Solution

	1	9	12	26	39	41	21	45	19	
1	1	2	3	6	7	8	5	9	4	26
42	8	7	4	1	9	5	2	6	3	11
29	6	9	5	2	4	3	1	8	7	30
37	7	6	1	8	2	9	4	3	5	23
20	5	3	2	4	6	7	9	1	8	40
45	9	4	8	5	3	1	6	7	2	9
17	4	1	9	3	8	2	7	5	6	31
10	2	8	7	9	5	6	3	4	1	1
14	3	5	6	7	1	4	8	2	9	45
	9	21	33	38	1	13	40	6	45	

9 Anti-Knight 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

10 Killer Sudoku

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

Example

¹⁶				¹²				¹⁷
		²⁹						
²³						²⁷		
								2
			4	2				¹⁰
2	¹²							
				¹⁰				
⁹								
		⁷						¹⁴

Solution

¹⁶ 7	9	4	3	¹⁵ 5	6	1	2	¹⁷ 8
1	3	²⁹ 5	7	2	8	6	4	9
²³ 6	2	8	9	1	4	²⁷ 5	7	3
8	4	7	1	3	5	9	6	2
9	5	6	4	8	2	7	3	¹⁰ 1
2	¹² 1	3	6	9	7	8	5	4
3	6	2	8	7	¹⁰ 1	4	9	5
⁹ 4	8	9	5	6	3	2	1	7
5	7	⁷ 1	2	4	9	3	¹⁴ 8	6

11 No Touch Sudoku

Apply classic sudoku rules. Identical digits must not touch each other diagonally.

Example

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

Solution

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

12 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

13 Small Difference Loop Sudoku

Apply classic sudoku rules. One or more loops of orthogonally connected cells will be shaded grey. Along such a loop, each pair of adjacent digits must have a difference of either 1 or 2.

Example

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

Solution

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

14 Difference 2 Neighbour Sudoku

Apply classic sudoku rules. Each digit in a grey cell must have at least one orthogonally adjacent digit (in either a grey or a white cell) that is exactly 2 greater or smaller.

Note: There may also be digits in white cells which have orthogonally adjacent digits that are exactly 2 greater or smaller.

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

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