



WPF
SUDOKU/PUZZLE
GRAND PRIX
2016

WPF SUDOKU GP 2016 INSTRUCTION **BOOKLET**

ROUND **3**

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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.

	5	9	1	8	6	2	4	7	3
1A →	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
1B →	2	8	3	7	4	9	1	6	5
	4	1	6	2	5	8	3	9	7

Submission Page

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

Version

This is version 2 of the instruction booklet. The points distribution has been added since version 1.

Points Distribution

1	Classic Sudoku	15
2	Classic Sudoku	23
3	Classic Sudoku	28
4	Classic Sudoku	49
5	Multi Sudoku	83
6	Anti-Diagonal Sudoku	32
7	Anti-Knight Sudoku	63
8	Arrow Sudoku	36
9	XV Sudoku	48
10	Quadruple Sudoku	26
11	GT Consecutive Sudoku	38
12	Divisor Sudoku	89
13	Wrong Outside Sum Sudoku	70
TOTAL:		600



1-4 Classic Sudoku

15, 23, 28, 49 points

Place a number from 1-9 in each empty cell in the grid such that each row, column and marked 3×3 box contains each number exactly once.

		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		

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

5 Multi Sudoku

83 points

Place a number from 1-9 in each empty cell in the two overlapping grids such that each row, column and marked 3×3 box contains each number exactly once.

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

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



6 Anti-Diagonal Sudoku

32 points

Apply classic sudoku rules.

Each marked diagonal must contain exactly three different numbers.

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

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

7 Anti-Knight Sudoku

63 points

Apply classic sudoku rules.

Numbers placed in cells related by a chess Knight's move must be different.

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

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



8 Arrow Sudoku

36 points

Apply classic sudoku rules.

The number placed in a cell with a circle must be the sum of the numbers placed in cells the adjoining arrow passes through. Numbers may repeat on arrows.

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

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

9 XV Sudoku

48 points

Apply classic sudoku rules.

Adjacent cells containing numbers summing to 5 are marked with a "V"; adjacent cells containing numbers summing to 10 are marked with an "X". Adjacent cells with no marking must not contain numbers summing to 5 or 10.

										V
	X	3		1		X	X			
	V		X	2				X		X
	V	2		9						
			X							
	V					2	X	9		
			X	X		9		8	X	V
			V					3		X
				X						
			V							

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



10 Quadruple Sudoku

26 points

Apply classic sudoku rules.

At some intersections of two crossing grid lines, a set of four numbers is given. These numbers must be placed in the four adjacent cells.

		2379					
			1367		2568		
		2456 - 3467					
		2789		3457 - 1479 - 1289			
						2467	
					2378	1569 - 4568	

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

11 GT Consecutive Sudoku

38 points

Apply classic sudoku rules.

Adjacent cells containing consecutive numbers are marked with inequalities. Numbers placed in these cells must satisfy the given inequality. Adjacent cells with no marking must not contain consecutive numbers.

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

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



12 Divisor Sudoku

89 points

Apply classic sudoku rules.

Some clues are marked at the edges of adjacent pairs of cells. These clues must be divisors of the 2 digit numbers formed by the numbers placed in these cells, when read left-to-right or top-to-bottom.

1	2			4			
	12			4		36	
			4		3	6	
	3	4		3			
		34				36	
				3		3	6
		1	3		8		
			13		8		16
				8		1	6

1	2	6	8	4	5	9	7	3
4	12	8	3	9	4	6	7	36
5	9	7	4	2	1	3	6	4
7	3	4	6	3	9	2	1	8
9	6	34	8	5	3	1	7	36
2	1	5	4	7	3	8	3	6
6	5	1	3	2	4	8	8	9
8	7	9	13	1	5	8	6	4
3	4	2	7	8	9	5	1	6

13 Wrong Outside Sum Sudoku

70 points

Apply classic sudoku rules.

The clues outside the grid differ by exactly 1 from the sum of the first 3 numbers placed in the corresponding direction.

	5	14	25	19	13	12	22	9	15	
13										17
16										23
19										6
20										7
18										19
8										22
24										9
15										14
7										19
	21	14	11	7	22	19	9	25	12	

	5	14	25	19	13	12	22	9	15	
13	1	4	7	9	6	2	8	3	5	17
16	2	5	8	4	1	3	9	6	7	23
19	3	6	9	5	7	8	4	1	2	6
20	8	7	4	6	5	9	1	2	3	7
18	5	9	3	7	2	1	6	4	8	19
8	6	1	2	8	3	4	7	5	9	22
24	9	8	6	3	4	5	2	7	1	9
15	7	2	5	1	9	6	3	8	4	14
7	4	3	1	2	8	7	5	9	6	19
	21	14	11	7	22	19	9	25	12	