



WPF
SUDOKU/PUZZLE
GRAND PRIX
2016

WPF SUDOKU GP 2016 INSTRUCTION **BOOKLET**

ROUND 8

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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 to the right, 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 1 of the instruction booklet.

Points Distribution

1	Classic Sudoku	15
2	Classic Sudoku	20
3	Classic Sudoku	26
4	Classic Sudoku	30
5	Classic Sudoku	32
6	Diagonal	83
7	Irregular Sudoku	45
8	Arrow Sudoku	37
9	Little Killer Sudoku	60
10	Thermo Sudoku	50
11	X-Sums Sudoku	48
12	Consecutive Pairs Sudoku	48
13	Full or Half Sudoku	66
14	X-One Sudoku	40
TOTAL:		600



1-5 Classic Sudoku

15, 20, 26, 30, 32 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

6 Diagonal

83 points

Apply classic sudoku rules.

Each marked diagonal must also contain each number from 1-9 exactly once.

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

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 Irregular Sudoku

45 points

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

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

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

8 Arrow Sudoku

37 points

Apply classic sudoku rules.

A 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

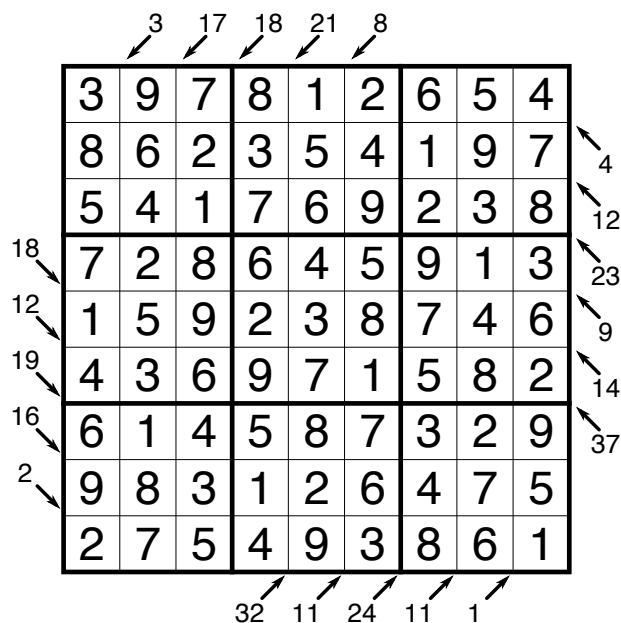
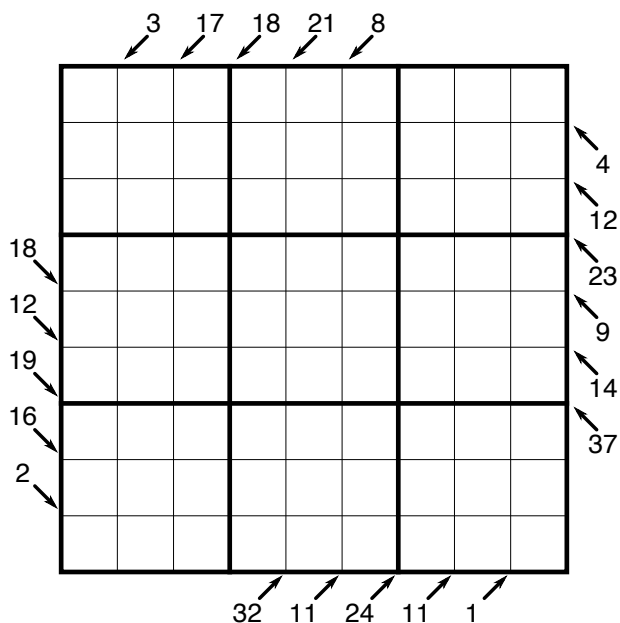


9 Little Killer Sudoku

60 points

Apply classic sudoku rules.

The clues outside the grid indicate the sum of the numbers contained in the cells in the direction of the corresponding arrow.

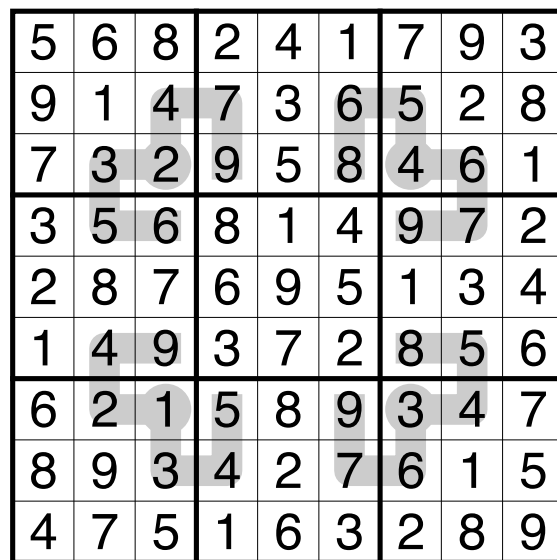
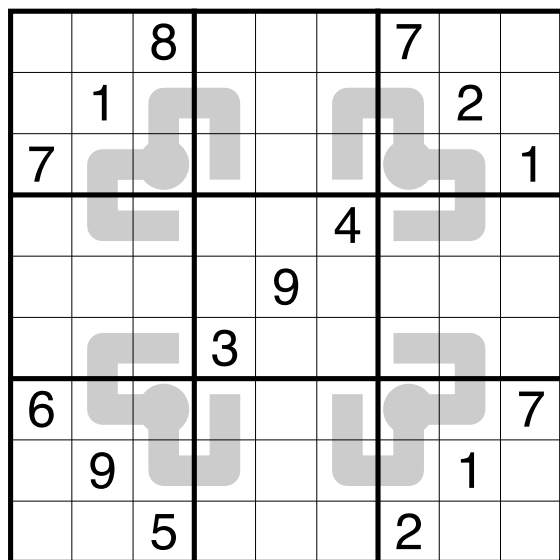


10 Thermo Sudoku

50 points

Apply classic sudoku rules.

Starting at the "bulb," numbers placed along each marked thermometer must form a strictly increasing sequence.





11 X-Sums Sudoku

48 points

Apply classic sudoku rules.

The clues outside the grid indicate the sum of the first X numbers placed in the corresponding direction, where X is equal to the first number placed in that direction.

	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	

	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	

12 Consecutive Pairs Sudoku

48 points

Apply classic sudoku rules.

The numbers placed in marked adjacent cells must be consecutive. Not all such pairs of cells are marked.

8						9		
	6							1
			3					
						4		
						8		
5							4	
	3							6

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



13 Full or Half Sudoku

66 points

Apply classic sudoku rules.

A circle marked at the intersection of a 2×2 block of cells indicates that numbers placed in these cells are either all odd or all even. A square marked at the intersection of a 2×2 block of cells indicates that exactly two numbers placed in these cells are odd, and exactly two numbers are even.

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

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

14 X-One Sudoku

40 points

Apply classic sudoku rules.

The number placed in a circled cell must appear exactly once on each of the two marked diagonals passing through that cell.

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

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