

# WPF SUDOKU GP 2014



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## 1 Classic Sudoku (26 points)

Place a digit from 1 to 9 in each empty cell so that each digit appears exactly once in each row, column and outlined 3x3 region.

**Answer Key:** Enter the 3<sup>rd</sup> row of digits, followed by the 6<sup>th</sup> column of digits.



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

# 2 Classic Sudoku (28 points)

Place a digit from 1 to 9 in each empty cell so that each digit appears exactly once in each row, column and outlined 3x3 region.

**Answer Key:** Enter the 8<sup>th</sup> row of digits, followed by the 2<sup>nd</sup> column of digits.



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











## 3 Classic Sudoku (44 points)

Place a digit from 1 to 9 in each empty cell so that each digit appears exactly once in each row, column and outlined 3x3 region.

**Answer Key:** Enter the 4<sup>th</sup> row of digits, followed by the 7<sup>th</sup> row of digits.

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

# 4 Classic Sudoku (46 points)

Place a digit from 1 to 9 in each empty cell so that each digit appears exactly once in each row, column and outlined 3x3 region.

**Answer Key:** Enter the 4<sup>th</sup> row of digits, followed by the 5<sup>th</sup> column of digits.



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











## **5 Classic Sudoku** (55 points)

Place a digit from 1 to 9 in each empty cell so that each digit appears exactly once in each row, column and outlined 3x3 region.

**Answer Key:** Enter the 5<sup>th</sup> row of digits, followed by the 2<sup>nd</sup> column of digits.



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



# **6 Classic Sudoku** (78 points)

Place a digit from 1 to 9 in each empty cell so that each digit appears exactly once in each row, column and outlined 3x3 region.

Answer Key: Enter the 6th row of digits, followed by the 5th column of digits.



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









## 7 Diagonal Sudoku (31 points)

classic sudoku rules. Apply Additionally, each digit appears exactly once in the two main diagonals.

**Answer Key:** Enter the 9<sup>th</sup> row of digits, followed by the 2<sup>nd</sup> column of digits.

4	B
•	

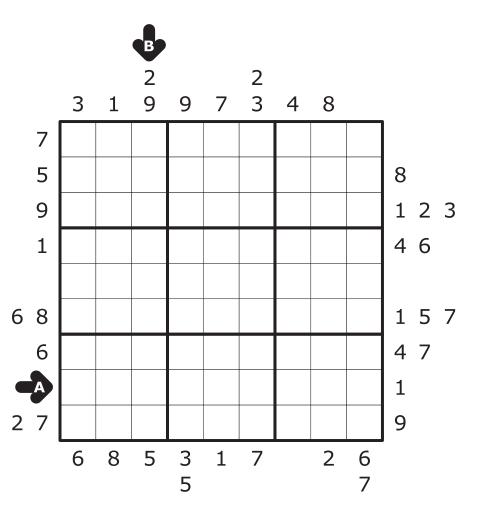
ľ			3	9	6			•••
							•••	
		•	7	2	8	•		
	7	4	••••		•	9		5
l	1	5				6		2
	8	6	•		•	3		1
ſ		•••	9	8	1	•		
							••••	
	•••		4	7	2			••••



# 8 Outside Sudoku (46 points)

Apply classic sudoku rules. Additionally, digits given outside the grid must appear in the first region (three cells) in that row/ column.

Answer Key: Enter the 8th row of digits, followed by the 3<sup>rd</sup> column of digits.











## 9 Renban Group Sudoku (52 points)

Apply classic sudoku Additionally, each grey region contains a set of consecutive digits, with no constraint on the order of the digits.

**Answer Key:** Enter the 9<sup>th</sup> row of digits, followed by the 2<sup>nd</sup> column of digits.



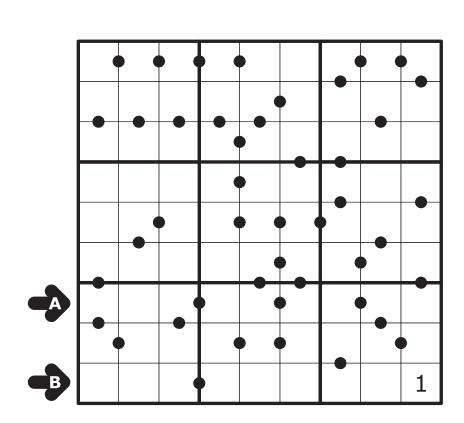
				8	5		
		7					Ω
3				1			
	8	5			2		
				9		4	
			1				
		4	8				
				7			



## **10 Consecutive Sudoku** (42 points)

Apply classic sudoku rules. Additionally, if a black dot is given between two adjacent cells, then the two numbers in those cells must be consecutive. If a black dot is not given, the two digits cannot be consecutive.

**Answer Key:** Enter the 7<sup>th</sup> row of digits, followed by the 9th row of digits.











#### 11 Extra Region Sudoku (36 points)

Apply classic sudoku Additionally, each digit appears exactly once in each of the extra shaded regions.

**Answer Key**: Enter the 3<sup>rd</sup> row of digits, followed by the 5th row of digits.

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

## 12 Sudoku with Stars (55 points)

Place either a digit from 1 to 7 or a star in each empty cell, so that each digit appears exactly once in each row, column and outlined region. There must be exactly two stars in in each row, column and outlined region. Stars cannot be placed in adjacent cells that touch even at a corner.

**Answer Key:** Enter the 2<sup>nd</sup> row of digits, followed by the 9th row of digits. Use X for stars in the answer entry.

					2	7	
			4		5		3
			5			1	6
	6	5					
				2			
1				4		3	
						5	_











#### 13 Determinant Sudoku (26 points)

Apply classic sudoku rules. Additionally, the determinants of 2x2 matrices are given in the center of the four cells. The determinant of a 2x2 matrix is a\*d-b\*c, where a is the top left, b is the top right, c is bottom left and d is the bottom right element.

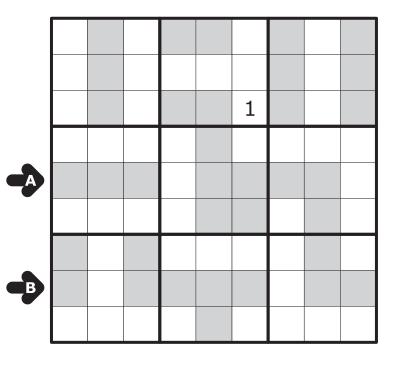
**Answer Key:** Enter the 8<sup>th</sup> column of digits, followed by the 9th column of digits.

6	5		2	7		1	3	
	<u> </u>	5		2	<b>7</b> —		<u>1</u>	3
		9			6			8
4	2		1	8			7	
	4			-		_	<b>7</b>	
	4	5			8 4		2	
1	6				[2			
	4	6				7		
	1	8	3	2				

## 14 Crossnumber Sudoku (35 points)

Fill in the white cells with given number words. Then, using written digits solve the sudoku, following the classic sudoku rules.

**Answer Key:** Enter the 5<sup>th</sup> row of digits, followed by the 8th row of digits.



1274

1476

