

## Squiggly Sudoku Puzzle for 01/27/19

To solve this puzzle, place the numbers 1 through 9 exactly once in each Row, Column and 9 block Shape.

I will show you step by step how I solved this puzzle. The numbers in black are the original puzzle. Each step is marked in red. The blue numbers are what has gone before.

Using three basic rules we complete the puzzle.

### Rule #1

Each numeral must appear once in each Row.

### Rule #2

Each numeral must appear once in each Column.

### Rule #3

Each numeral must appear once in each Shape.

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

Examining the Shape on the left we see the 6 can only go one place. Rule #3.

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

Using the same Rule place the 2 in Column 9.

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

We need a 9 in Column 2. It can only fit in Row 2

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

Rules #3.  
The 4 in the bottom Row.

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

Place the 5 in Column 3. It fits but one place.

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

Column 4, ditto.

Place the 6 in row 8.

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

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

The 2 in the bottom left shape fits in Row 2 only.

Place the last 5.

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

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

Row 3 needs a 1, 2, 3, and 8.  
 Rule # 3 strikes again.

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

Looking for the 2 in Column 7 you will find  
 it goes one place.

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

In this shape the 8 must be in Column 8.

Row 3 is missing 1, 2, and 3. Rule #3 puts it  
 in Column 5.

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

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

This 3 must go here,

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

Finish this shape.

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

Finish the Row 2. Start with the number 1

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

The 3 in this shape goes in Row 5. Finish the Column and the Shape on the bottom.

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

The 3 in the bottom Shape must be here.  
Now finish Row 8, Column 7 and Row 9

We are missing a 1, 3, 4 and 9 in Column 1.  
Easy as toast.

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

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

Column 3 is easy now also Row 3 and  
Column 8.

Column is easy enough if you place the 6  
first.

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

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

Finish Rows 1 and 4.

Finish Columns 5 and 6. You're done.

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

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

Starting with Column 9, fill in Row 5. Row 6 and Column 9 are next.

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