

## Sudoku Sampler

**Objective:** Fill in all empty squares so that each row, column and 3x3 "zone" contains each of the digits 1 through 9, exactly once.

**Hints:** Work your way through each digit in turn, starting with digits that appear often. Then look for rows, columns and zones that are almost complete and try to place the missing digits. Work back and forth between these techniques. Guessing is unnecessary and is not recommended.

### Puzzle 2 (Easy)

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

### Puzzle 4 (Hard)

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

### Puzzle 1 (Easy)

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

### Puzzle 3 (Medium)

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

### Puzzle 5 (Challenge)

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

## Solutions

Pre-filled digits are shown in bold.

Note that guessing is unnecessary and is not recommended; it usually leads to a contradiction but by then you have lost track of which digit is in error.

For more information see the tutorial at <http://numberpuzzles.com>

### Solution #1

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

### Solution #2

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

### Solution #3

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

### Solution #4

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

### Solution #5

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