

Sudoku Practice

Use the following information to answer the first question.

5			9	3		6		
7	6	1			4	3	9	
9	8							
		8			6	5	3	9
			2	5				
6	7	5	3			8		
<i>B</i>							1	3
	9	4	6			2	8	7
1			7	8		<i>A</i>		4

1. The numbers for cells A and B respectively, are, ___ and ___.

Use the following information to answer the next question.

5	<i>C</i>	<i>D</i>	9	3		6		
7	6	1			4	3	9	
9	8							
		8			6	5	3	9
			2	5				
6	7	5	3			8		
							1	3
	9	4	6			2	8	7
1			7	8				4

2. When the upper left 3 X 3 box is completed, the numbers in cells C, D, and E respectively, are ____, ____, and ____.

Use the puzzle below to answer the next question.

	5			9	3		6	
	7	6	1			4	3	9
	9	8						
Middle Left			8			6	5	3 9
				2		5		
	6	7	5	3			8	
Lower Middle							1 3	
		9	4	6			2 8	7
	1		7		8			4
								Lower Right

3. The puzzle above identifies the location of 5, 9s. (there are still 4 to be determined). In which 3 X 3 box do we currently have enough information to place the next 9 with certainty?
- A) Middle B) Middle Left C) Lower Middle D) Lower Right

Use the following puzzle to answer the next question.

2		3			4	8		
6					5			1
	7	5		8	9			
	6	2	<i>A</i>	<i>B</i>	<i>C</i>	3		4
5	3		<i>D</i>	<i>E</i>	<i>F</i>		1	8
8		4	<i>G</i>	<i>H</i>	<i>I</i>	6	2	
			6	5		9	4	
4			7					2
		7	8			5		3

4. There are no numbers given for the middle box; each cell is labelled with ABCDEFGHI. We know for sure that 8 will fill one of these cells. Which one is it?

A) A

B) B

C) C

D) D

5. The number filling cell K below is _____.

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

Use the puzzle below to answer the next question.

2		3			4	8		
6					5			1
	7	5		8	9			
	6	2				3		4
5	3		A	B	C	X	1	8
8		4				6	2	
			6	5		9	4	
4			7			K		2
		7	8			5		3

6. A) What are the 3 numbers that must occupy cells A, B, and C (not necessarily in that correct order)?

B) As a result of knowing the number in cells A, B, and C, we can determine the number occupying cell X. Cell X is ____.

7. Solve the following puzzle.

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

Sudoku Practice Solutions

Use the following information to answer the first question.

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

1. The numbers for cells A and B respectively, are, 5 and 8.

Solution

The missing numbers in this 3 X 3 box are 5, 6 and 9.

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

The vertical arrows indicate that 5 cannot be possible in two empty cells. There is now only one possible cell for 5.

The number for cell A is 5.

As we look around the 3 X 3 box in the lower left hand corner, we see that there are a number of 8s.

After drawing vertical and horizontal lines to eliminate possible spots for 8, we are left with only one option.

The number for cell B is 8.

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

Use the following information to answer the next question.

5	C	D	9	3		6		
7	6	1		4	3	9		
9	8	E						
		8		6	5	3	9	
			2	5				
6	7	5	3		8			
							1	3
	9	4	6		2	8	7	
	1		7		8			4

2. When the upper left 3 X 3 box is completed, the numbers in cells C, D, and E respectively, are 4, 2, and 3.

Solution

This 3 X 3 box is missing 2, 3, and 4. Scan the numbers that are in different boxes to the right, and below. Are there numbers in any of these rows or columns that can eliminate potential options?

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

This 3 eliminates two possible cells.

Cell E is occupied by 3.

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

The 4 in the lower left box eliminates two possible cells.

Cell C is occupied by 4.

There is only one possible option remaining for the last cell, which is 2.

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

When the upper left 3 X 3 box is completed, the numbers in cells C, D, and E respectively, are 4, 2, and 3.

Use the puzzle below to answer the next question.

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

Labels and arrows pointing to specific cells:

- Middle Left** points to the cell containing 8 (row 4, column 3).
- Middle** points to the cell containing 5 (row 5, column 4).
- Lower Middle** points to the cell containing 6 (row 8, column 3).
- Lower Right** points to the cell containing 7 (row 8, column 7).

3. The puzzle above identifies the location of 5, 9s. (there are still 4 to be determined). In which 3 X 3 box do we currently have enough information to place the next 9 with certainty?

- B) Middle **B) Middle Left** C) Lower Middle D) Lower Right

Solution

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

The correct answer is B,
Middle Left.

Use the following puzzle to answer the next question.

2	3			4	8		
6				5			1
	7	5		8	9		
	6	2	A	B	C	3	4
5	3		D	E	F		1 8
8		4	G	H	I	6	2
			6	5		9	4
4			7				2
		7	8			5	3

4. There are no numbers given for the middle box; each cell is labelled with ABCDEFGHI. We know for sure that 8 will fill one of these cells. Which one is it?

A) A

B) B

C) C

D) D

Solution

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

The 8 will be placed in cell C. The correct answer is C.

5. The number filling cell K below is 1.

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

No 1

Solution

The column that K is in needs 1. There is no 1 in the three upper cells, because there is already 1 in each 3 X 3 box.

The only spot for 1 is K.

K = 1,

Use the puzzle below to answer the next question.

2		3			4	8		
6					5			1
	7	5		8	9			
	6	2				3		4
5	3		A	B	C	X	1	8
8		4				6	2	
			6	5		9	4	
4			7			K		2
		7	8			5		3

6. A) What are the 3 numbers that must occupy cells A, B, and C (not necessarily in that correct order)?

Solution

Sometimes a strategy is to group numbers. In the row containing ABC, we are missing the numbers 2, 4, and 6.

2		3			4	8		
6					5			1
	7	5		8	9			
	6	2				3		4
5	3		A	B	C	X	1	8
8		4				6	2	
			6	5		9	4	
4			7			K		2
		7	8			5		3

There can be no 2, 4, or 6 in these three spots.

There can be no 2, 4, or 6 in these three spots.

The numbers that must occupy cells A, B, and C, are 2, 4, and 6.

B) As a result of knowing the number in cells A, B, and C, we can determine the number occupying cell X. Cell X is 7.

Solution

The row containing ABC, now has the numbers 5, 3, 2, 4, 6, 1, and 8. We are missing 7 and 9.

2	3			4	8			
6				5			1	
	7	5		8	9			
	6	2				3	4	
5	3		A	B	C	X	1	8
8		4				6	2	
			6	5		9	4	
4			7			K		2
		7	8			5		3

There can be no 7 in this spot, as there is a 7 already in that column.

Cell X = 7.

7. Solve the following puzzle.

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

Solution

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