



FOR BETTER BRAINS.

# SUDOKU ROYALE!™

## INSTRUCTION BOOK

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



For 1 or more Players  
For Ages 12 and Up

## CONTENTS

game mat  
81 game chips (9 sets of 9 colors)  
travel bag

## OBJECT

Players take turns solving a sudoku puzzle, so that each game chip color (denomination) appears only once in each row, each column, and each box. The player who fills in the grid with the highest total dollar value of chips wins!

## SETUP

Arrange chips of the same color into stacks. Place the stacks in ascending order alongside the grid, with the white chips next to the square numbered 1, and the orange chips next to the square numbered 9.

73	64	55	46	37	28	19	10	1
74	65	56	47	38	29	20	11	2
75	66	57	48	39	30	21	12	3
76	67	58	49	40	31	22	13	4
77	68	59	50	41	32	23	14	5
78	69	60	51	42	33	24	15	6
79	70	61	52	43	34	25	16	7
80	71	62	53	44	35	26	17	8
81	72	63	54	45	36	27	18	9

- ① White = \$1
- ② Red = \$5
- ③ Dark Blue = \$10
- ④ Green = \$25
- ⑤ Light Blue = \$50
- ⑥ Black = \$100
- ⑦ Yellow = \$1000
- ⑧ Pink = \$5000
- ⑨ Orange = \$10000

The squares are numbered from 1 to 81 to make it easy for players to identify locations on the game mat.



Each game starts with a partially filled grid. The object is to fill in the empty squares so that each game chip color appears only once in each row, each column, and each box.

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

For competitive games, the following rules apply:

Players take turns placing chips on the grid. Each turn can have an agreed upon time limit.

Only one chip is allowed to be placed on the grid per turn.

**If a chip is placed on the grid, it must be proved correct before play continues.**

If a chip is not placed on the grid before time expires, the next player’s turn begins.

Each player uses a score sheet to record the quantity and color (denomination) of chips they place on the grid.

**HOW TO WIN**

The player who fills in the grid with the highest total dollar value of chips wins!

## SOLVING TECHNIQUES

Sudoku puzzles are solved by logical thinking and simple strategies that use the process of elimination. The first of these techniques is known as “scanning.”

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

Scanning makes use of the rule that a number can only appear in a row or column once. By scanning the rows and columns, it will show where certain numbers **cannot** go, and may reveal **only one square** within a box where a certain number **can** go!

You can begin scanning for any number, but it is best to start with numbers based on their frequency. Since there are five 8s in the example above, we will start by trying to fill more 8s.

Rows 4 and 5 have 8s, which leaves only one square in the middle right box to put the 8 (A).

Columns 2 and 3 have 8s, which leaves two squares in the lower left box to put the 8 (B) (C). However, there is an 8 in row 8, which leaves only one square to put the 8 (B).

Finding numbers will help you find more numbers. Rows 1 and 2 have 8s, and we put an 8 in column 8 (A), which leaves only one square in the upper right box to put the 8 (D).

Another useful technique is to look for rows, columns, or boxes that are missing only a few numbers. Identify those missing numbers and see if any of them can be placed.

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

In this example, column 7 is missing a 3, 6, 9. We cannot put the 6 in square (A) because the lower right box has a 6, and we cannot put the 9 in square (A) because row 7 has a 9, so square (A) can only be the 3.

We cannot put the 6 in square (B) of column 7 because row 2 has a 6, so square (B) can only be the 9, which leaves one square (C) to put the 6.

**By eliminating numbers that cannot be put into squares, you are often left with only one possibility.**

When solving a sudoku puzzle, it is important to only place a number in a square after every other possibility has been eliminated. **Never guess!** If your guess is wrong, you may not realize it until you try to place the last number.

If you cannot find more numbers to place, look carefully at each row, column, and box. Identify the missing numbers and see if any of them can be placed.

Another technique can often be used to solve a square much more quickly.

		2	(A)	(B)	4			8
							9	3
	(C)		9	2	5			
						1		4
		3	8		9	5		
6		1						
			2	5	1			
3	4		(D)					
2			7			8		

In this example, row 2 has a 3, which leaves two squares in the upper middle box to put the 3 (A) (B).

Even though we cannot solve square (A) or (B) yet, we know **one of them must be a 3**, which means that a 3 cannot appear elsewhere in row 1. We can use that knowledge to help solve a square in the upper left box.

Since row 2 and columns 1 and 3 have 3s, and square (A) or (B) must be a 3, it leaves **only one square** in the upper left box to put the 3 (C).

The above technique is extremely useful, but it only works in situations where a missing number is confined to squares that are in a **single row or column within a box**. In the example above, the 3 was confined to squares (A) or (B) in row 1.

Finally, look for squares in which **only one number** can be placed. In the example above, we can only place a 6 in square (D) because the other eight numbers are already used in the same row (3,4), column (2,7,8,9), and box (1,2,5,7).



The following puzzles were provided courtesy of:



For more sudoku puzzles, visit:

[www.krazydad.com](http://www.krazydad.com)

**1**

Easy

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

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**2**

Easy

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

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**3**

Easy

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

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**4**

Easy

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

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**5**

Easy

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

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**6**

Easy

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

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**7**

Easy

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

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**8**

Easy

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

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**9**

Easy

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

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**10**

Easy

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

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**11**

Easy

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

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**12**

Easy

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

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**13**

Easy

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

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**14**

Easy

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

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**15**

Easy

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

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**16**

Easy

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

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**17**

Easy

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

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**18**

Easy

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

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**19**

Easy

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

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**20**

Easy

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

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**21**

Easy

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

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**22**

Easy

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

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**23**

Easy

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

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**24**

Easy

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

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**25**

Easy

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

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**26**

Intermediate

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

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**27**

Intermediate

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

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**28**

Intermediate

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

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**29**

Intermediate

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

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**30**

Intermediate

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

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**31**

Intermediate

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

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**32**

Intermediate

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

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**33**

Intermediate

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

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**34**

Intermediate

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

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**35**

Intermediate

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

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**36**

Intermediate

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

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**37**

Intermediate

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

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**38**

Intermediate

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

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**39**

Intermediate

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

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**40**

Intermediate

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

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**41****Challenging**

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

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**42****Challenging**

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

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**43****Challenging**

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

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**44****Challenging**

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

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**45****Challenging**

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

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**46****Challenging**

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

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**47****Challenging**

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

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**48****Challenging**

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

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**49****Challenging**

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

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**50****Challenging**

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

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# SUDOKU ROYALE!™

## SCORE SHEET

CHIP VALUE	QUANTITY	SUBTOTAL \$
White \$1		
Red \$5		
Dark Blue \$10		
Green \$25		
Light Blue \$50		
Black \$100		
Yellow \$1000		
Pink \$5000		
Orange \$10000		
TOTAL \$		



**FOR BETTER BRAINS.**

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