

KAKURO カックロ

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from Kakuro.**

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Kakuro is a delightful number-based puzzle that requires the use of simple addition, but you don't need to be good at maths to solve the puzzles. It's the placing of the digits that counts. There are also plenty of other puzzles to keep you entertained, including Killer Sudoku, Lonesum and Suguru (featured in this sample), Loop the Loop and Navigrid.

The pencils by the puzzles give an indication of the level of difficulty.

 Easy  Medium

 Hard  Very Hard

Unique Digit Answers

Sum Numbers

3 → 1 • 2

4 → 1 • 3

16 → 7 • 9

17 → 8 • 9

6 → 1 • 2 • 3

7 → 1 • 2 • 4

23 → 6 • 8 • 9

24 → 7 • 8 • 9

10 → 1 • 2 • 3 • 4

11 → 1 • 2 • 3 • 5

29 → 5 • 7 • 8 • 9

30 → 6 • 7 • 8 • 9

15 → 1 • 2 • 3 • 4 • 5

16 → 1 • 2 • 3 • 4 • 6

34 → 4 • 6 • 7 • 8 • 9

35 → 5 • 6 • 7 • 8 • 9

21 → 1 • 2 • 3 • 4 • 5 • 6

22 → 1 • 2 • 3 • 4 • 5 • 7

38 → 3 • 5 • 6 • 7 • 8 • 9

39 → 4 • 5 • 6 • 7 • 8 • 9

28 → 1 • 2 • 3 • 4 • 5 • 6 • 7

29 → 1 • 2 • 3 • 4 • 5 • 6 • 8

41 → 2 • 4 • 5 • 6 • 7 • 8 • 9

42 → 3 • 4 • 5 • 6 • 7 • 8 • 9

36 → 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8

37 → 1 • 2 • 3 • 4 • 5 • 6 • 7 • 9

38 → 1 • 2 • 3 • 4 • 5 • 6 • 8 • 9

39 → 1 • 2 • 3 • 4 • 5 • 7 • 8 • 9

40 → 1 • 2 • 3 • 4 • 6 • 7 • 8 • 9

41 → 1 • 2 • 3 • 5 • 6 • 7 • 8 • 9

42 → 1 • 2 • 4 • 5 • 6 • 7 • 8 • 9

43 → 1 • 3 • 4 • 5 • 6 • 7 • 8 • 9

44 → 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9

45 → 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9

Here is a complete table of all Unique Digit Answers for Kakuro.

Kakuro

Fill the grid so that each block adds up to the total in the box above or to the left of it. You can only use the digits 1-9 and you must not use the same digit twice in a block.

Note: the same digit may occur more than once in a row or column, but it must be in a separate block.

		11	4		
	5				
14				10	
17	9				3
6	5	1	3	4	3
	10				2
		3			

Don't forget:

- For certain sums, only one combination of digits is possible. This can limit your options. For example (see above), 1 is the only digit that can go in the intersecting cell of the four (1,3) and three (1,2) sums.

A complete table of all Unique Digit Answers can be found to the left.

- Look out for sums that comprise few cells with very high or very low totals. For example (see above), of all possible combinations for the fourteen sum (5,9 or 6,8), only 5 can go in the intersecting cell of the six sum.

	2	3		
9	5	1	2	
5	1		3	1
	3	1	4	2
		2	1	

1 

	6	21	4	10	9		4	3		23	16
15						3			17		
16						18			3		
4			3	4			21	4			6
	4			6	4	17			14	8	4
15						28					
9			3			16					

2 

	14	16	17	33		35	14	12	17
30					30				
29					29				
	16	35	23				15	4	
14			24			7	6		
25					14				
	16			33		35	4		4
26					13				
17			23				3		
	14	16	17	24			14	12	17
29					30				
30					29				



3 

		21	4		7	11			15	12	6	22	4
	9			4				16					
3				4				4					
23							27						
							5						
4			3			4				4			
		6				4			20	16			3
	4				3			17				4	
	17			4	16			4			17		
27							34						
							4			16			
22													



4 

	23	36	4		9	6		24	14	17		33	4
19				4			24				3		
				4							16		
21							38						
							9						
17			3			16				17			
		16				7			14	3			24
	17				3				4			17	
	17			3	4			14			11		
27							22						
			7				16				24		
13													

5 Lonesum



	8	20		16	8	27		30	6
5			14				13		
11			37				9	8	
9		3	29		14	8			9
	28				17	8		11	
		16	5			15		3	
8	23				17				
11		1		20			5		
				12			25	10	
18					16			2	
	27				27				
	16						9		
							13		
11			7			12			
			14			14			13
9				27				1	
23		8		17			15		

This puzzle is a twist on the traditional Kakuro puzzle. The normal rules of Kakuro apply. In addition, a combination of digits forming a sum can only be used once in a grid.

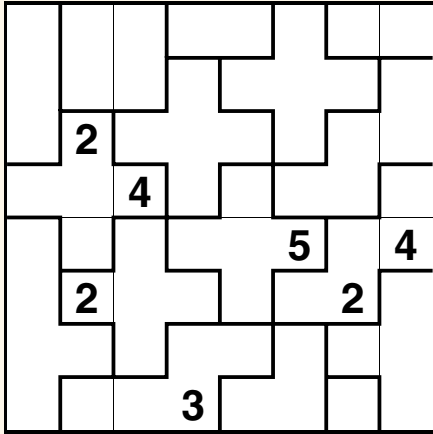
For example, if a two-cell 8-sum comprises 3 and 5, then 3/5 or 5/3 cannot appear in any other two-cell 8-sums in the grid.

6

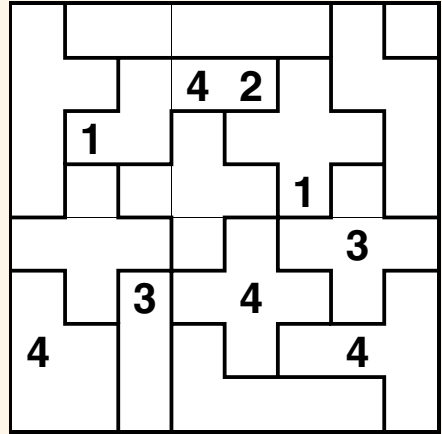


	4	37	24	3	30		27	3	29	37	16
28						28					
26						26					
	14			6				16			
	3			7				7			
	16			28				31			17
14			15			14			16		
			18					20			
35						35					
		16					14				
	3	22			36		27			36	16
15						34					
4			3			4			14		
			15			16			26		
	16			24				4			
	4			23				16			
	4			17				4			16
22						26					
24						28					

7 Suguru



8 Suguru

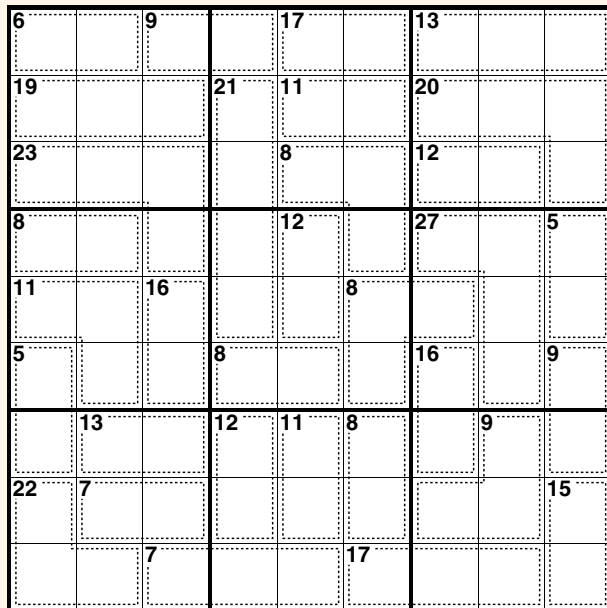


Each cell in an outlined block must contain a digit: a two-cell block contains the digits 1 and 2, a three-cell block contains the digits 1, 2 and 3; and so on. No same digit appears in neighbouring cells, not even diagonally.

9 Killer



Place a number from 1-9 in each empty cell so that each row, each column and each 3x3 block contains all the numbers from 1-9. In addition, the digits in each inner shape (marked by dots) must add up to the number in the top corner of that box. No digit can be repeated within an inner shape.



Solutions

1

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

2

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

3

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

4

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

5

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

6

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

7

2	1	2	1	2	3	2	1
3	4	3	4	5	1	4	5
1	2	1	2	3	2	3	2
3	5	4	5	1	4	1	5
4	1	3	2	3	5	3	4
5	2	4	1	4	1	2	1
1	3	5	2	5	3	4	3
2	4	1	3	1	2	1	2

8

1	5	2	1	3	4	2	1
2	4	3	4	2	5	3	5
3	1	5	1	3	4	2	4
5	2	3	4	5	1	5	1
3	4	5	2	3	2	3	4
2	1	3	1	4	5	1	2
4	5	2	5	2	3	4	5
1	3	1	3	4	1	2	1

9

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