Sudoku Xtra™ 21

October 2012

>> The Logic Puzzle Brain Workout

All puzzles by Dr Gareth Moore except where otherwise credited

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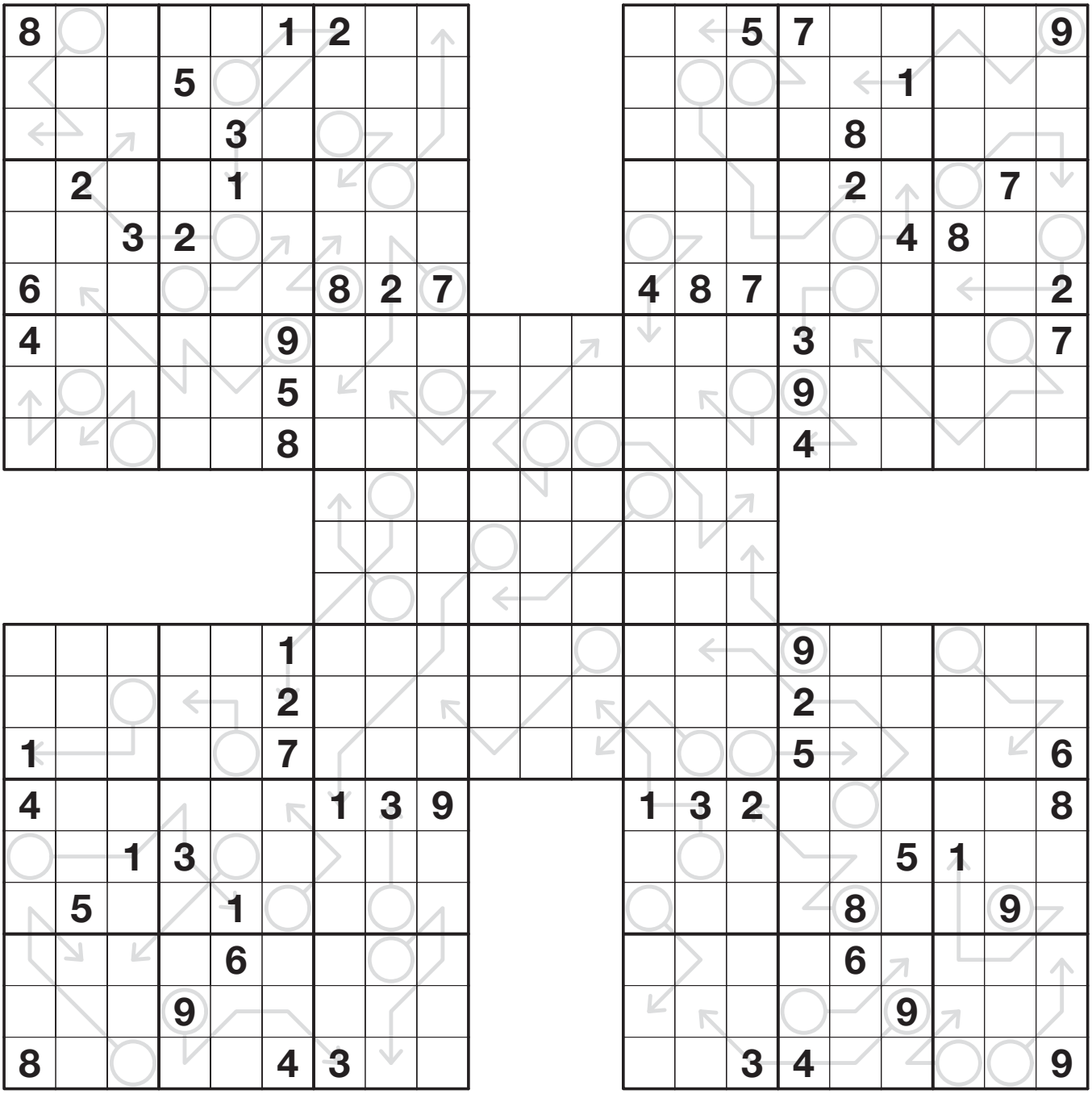
Packed with Puzzles!

>> Arrow Samurai Sudoku

Full instructions on page 2.



Welcome to **Sudoku Xtra** 21, containing 144 top-quality logic puzzles of a wide range of types, with a particular focus on Sudoku variants. All of the puzzles are language-neutral and have a unique solution which can be found via sensible logical deduction, with guessing never required.

This issue I've introduced even more new Sudoku variants, building on the large number of new types in issue 20! There's **Quad-Max Sudoku**, **Anti-Knight Sudoku**, **Slashed Sudoku**, **Minus Little Killer**, **Product Frame Sudoku**, **Headless Worm Sudoku**, **Extra Region Windmill Sudoku**, **Non-Consecutive Diagonal Sudoku**, **Mystery Calcudoku Zero** and **Trio Sudoku**. Popular variants that are back this issue include **Sudoku XV, Kropki Sudoku**, **Consecutive Sudoku** and others. **Nurikabe** and **Yajilin** puzzles also return, along with many existing favourites.

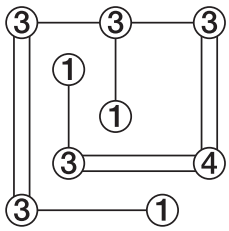
If there's anything you'd like to see in a future issue, just let me know - for example last issue **Inequality Sudoku** returned following requests on the **www.SudokuXtra.com** forum. There are also links on the website to other issues, as well as details of how to subscribe to the PDF version. All issues are also on all Amazon stores worldwide.

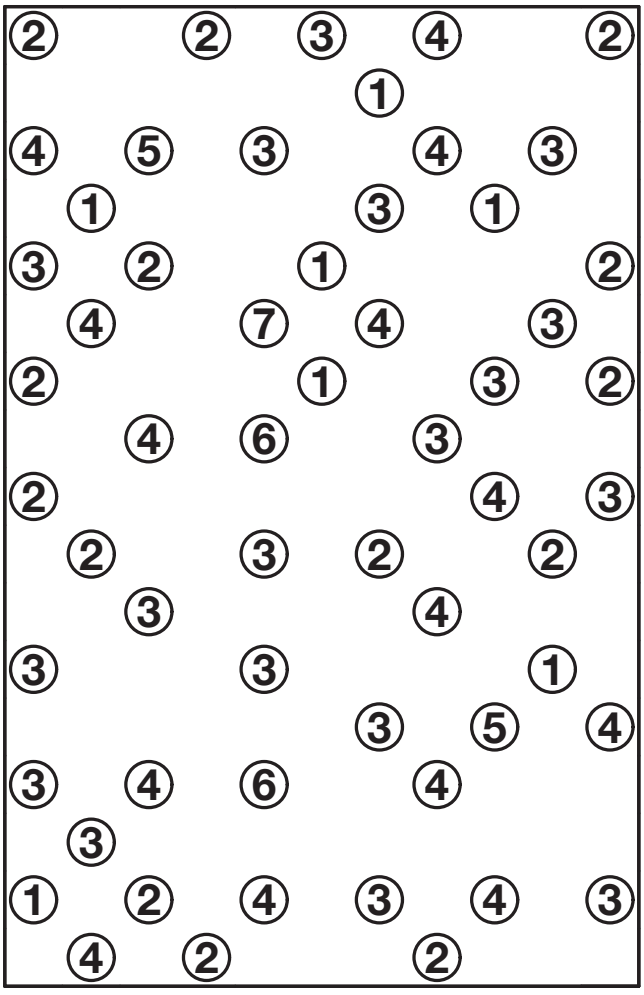
Dr Gareth Moore
gareth@sudokuxtra.com

>> Hashi

Join circled numbers with horizontal or vertical lines.

> Each number must have as many lines connected to it as specified by its value.
> No more than two lines may join any pair of numbers.
> No lines may cross.
> The finished layout must allow you to travel from any number to any other number just by following one or more lines.





>> Cover Puzzle

>> Arrow Samurai Sudoku

Place 1 to 9 once each into every row, column and marked 3×3 box of each of the five underlying 9×9 grids.

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

> Digits in circled cells must be equal to the sum of the digits along their attached arrows.

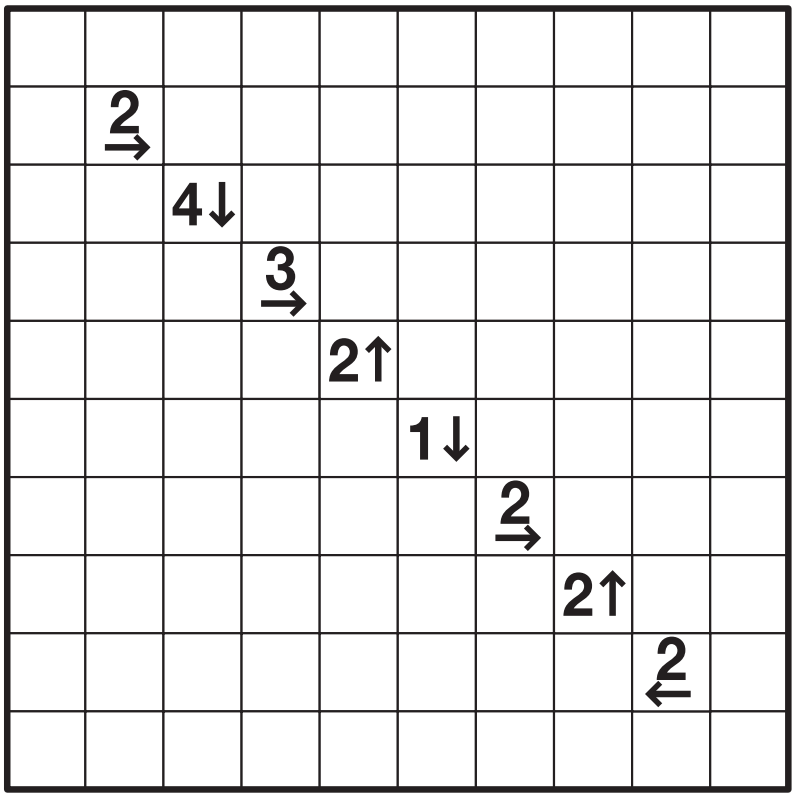
> The example shows how the arrows work on a single grid.

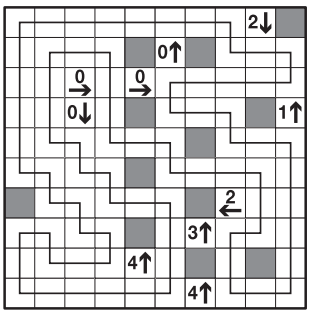
>> Yajilin

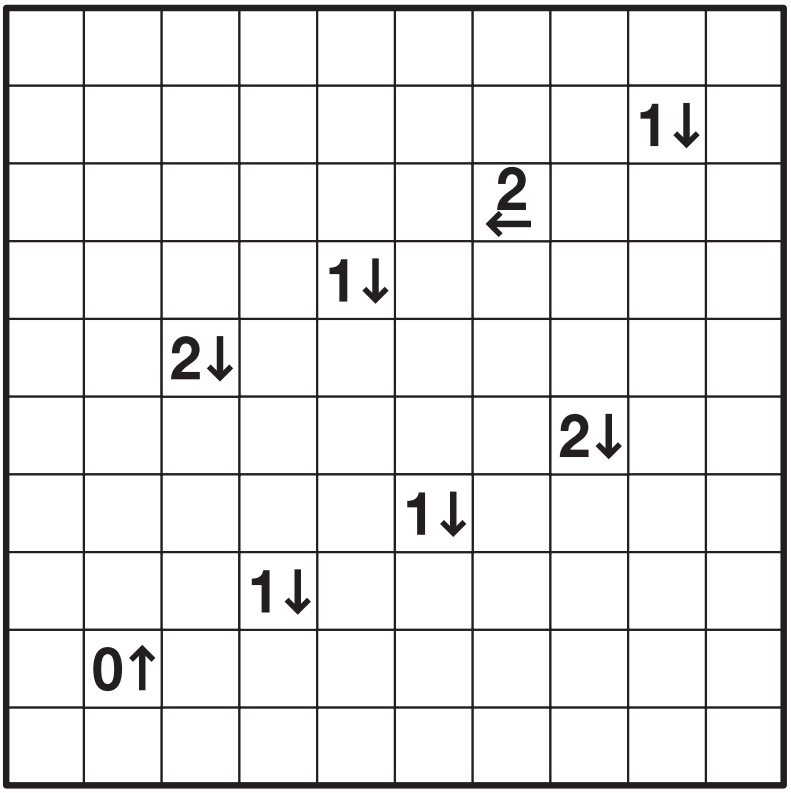
Draw a single loop using only horizontal and vertical lines such that the loop does not pass through any cell more than once.

> Any cells which the loop does not visit must be shaded, but none of these shaded cells can touch in either a horizontal or vertical direction.

> Numbers with arrows indicate the exact number of shaded cells in a given direction in a specific row or column, but not all shaded cells are necessarily identified with arrows.







The next **Sudoku Xtra**, issue 22, is due out in December 2012. Issues are available immediately on **www.SudokuXtra.com** (download), then on Amazon (printed) in the following days.

The latest download or pre-printed links are always available at www.SudokuXtra.com/magazines.php

9+ 2	18× 6	3	0− 5	1	4
3	4÷ 4	1	5+ 2	30× 6	6+ 5
4	4− 2	6	3	5	1
4− 1	2− 5	8× 2	2− 6	4	1− 3
5	3	4	3+ 1	2	6
12+ 6	1	5	7+ 4	3	2

>> Calcudoku

Place the numbers 1 to 6 (or 1 to 8) once each into every row and column of the grid, while obeying the Calcudoku region totals.

> The value at the top-left of each bold-lined region must be obtained when all of the numbers in that region have the given operation (+, -, ×, ÷) applied between them. For - and ÷ operations start with the largest number in the region and then subtract or divide by the other numbers.

> Remember that you **can** repeat a number within a bold-lined region, unlike in Killer Sudoku, so long as you obey the row/column restraints.

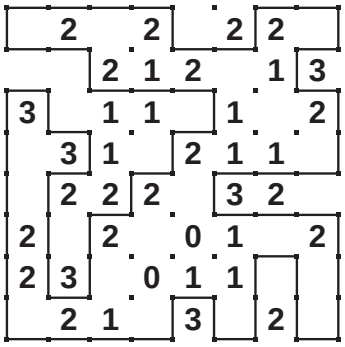
24×		15×		12+	
	4−		7+	1−	
5÷	20×				4−
	15×	6÷	4÷		
3÷			3−		12+
		2−			

1−	8+		12+	5−	
	10×			10+	
11+		3×	3−		4×
	16×			8+	
		72×			7+
3−			6+		

75×		6+	2−		
2÷			96×		
	8×			13+	
		120×			3−
36×			15×	24×	

2−		7+		5+	35×	10+	
16×			14+			1−	
7+				448×			315×
16+	60×						
		23+		12×			
	14×			9+	16×	14+	
175×		3÷	4+				
				3−		4−	

10+		40×		6×	24×	3−	30×
5+		8+					
21+	24×		35+			3−	9+
		1−			30×		
6×	8+					24×	
		16+			2×		
7+	16×		7+	9+		7+	
				42×		5−	

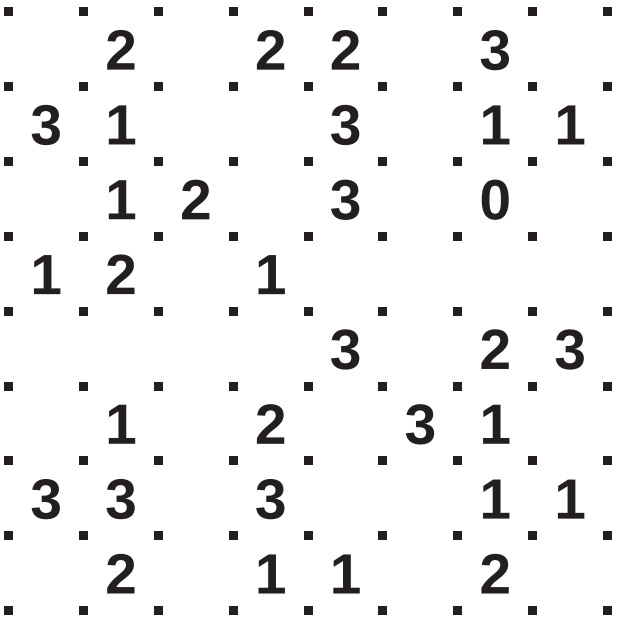


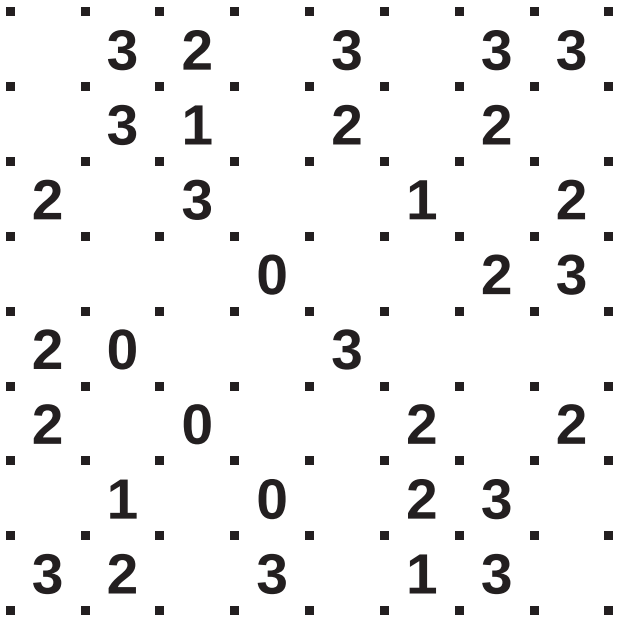
>> Slitherlink

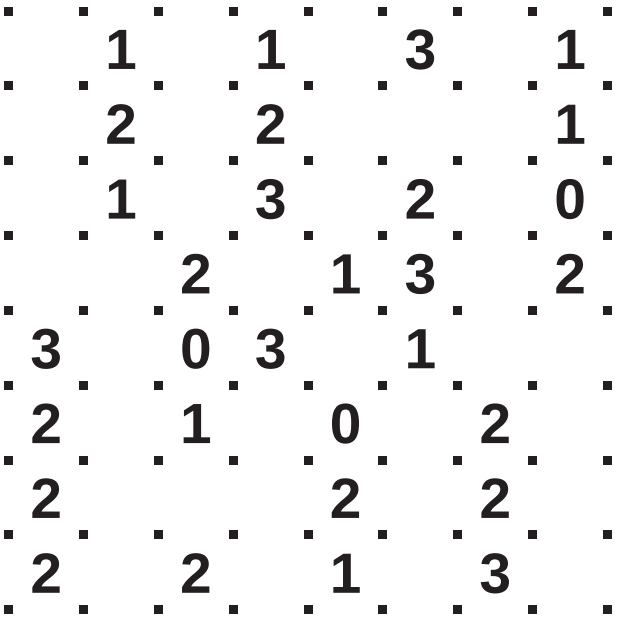
Draw a single loop by connecting together the dots so that each numbered square has the specified number of adjacent line segments.

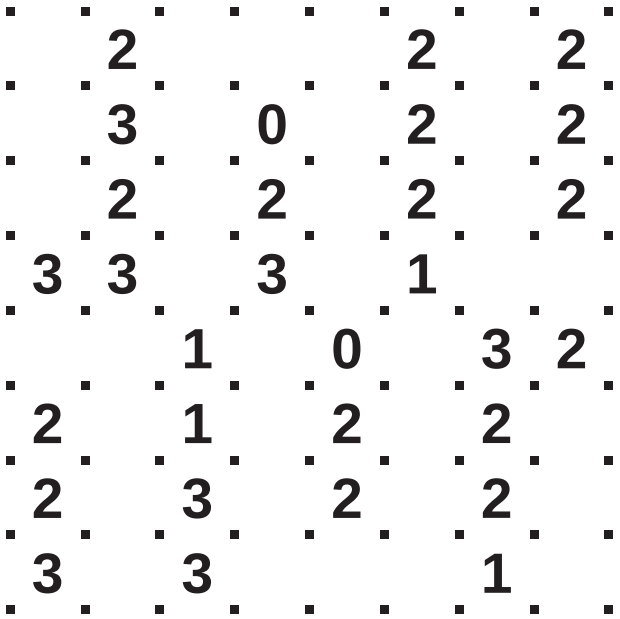
> Dots can only be joined by straight horizontal or vertical lines.

> The loop cannot touch, cross or overlap itself in any way.









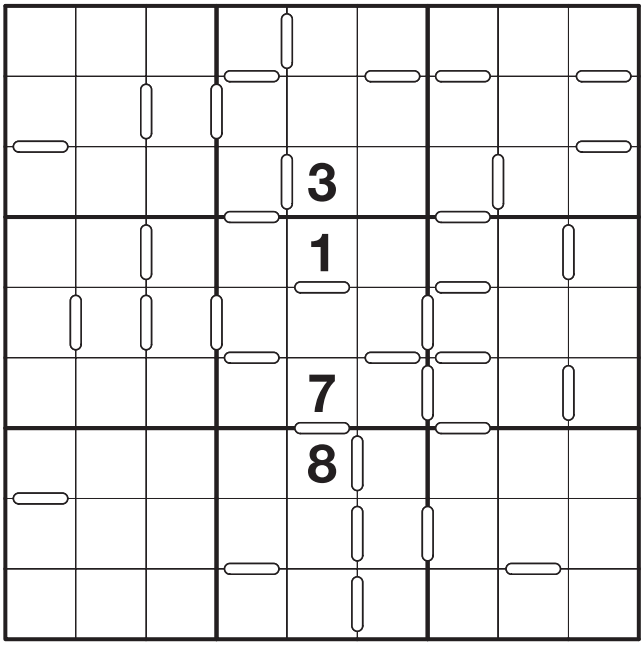
5	3	4	6	2	1	9	8	7
8	7	9	5	3	4	2	1	6
6	2	1	9	7	8	4	5	3
7	1	6	8	4	9	3	2	5
2	4	5	3	1	7	8	6	9
9	8	3	2	6	5	1	7	4
3	9	8	1	5	6	7	4	2
1	6	7	4	9	2	5	3	8
4	5	2	7	8	3	6	9	1

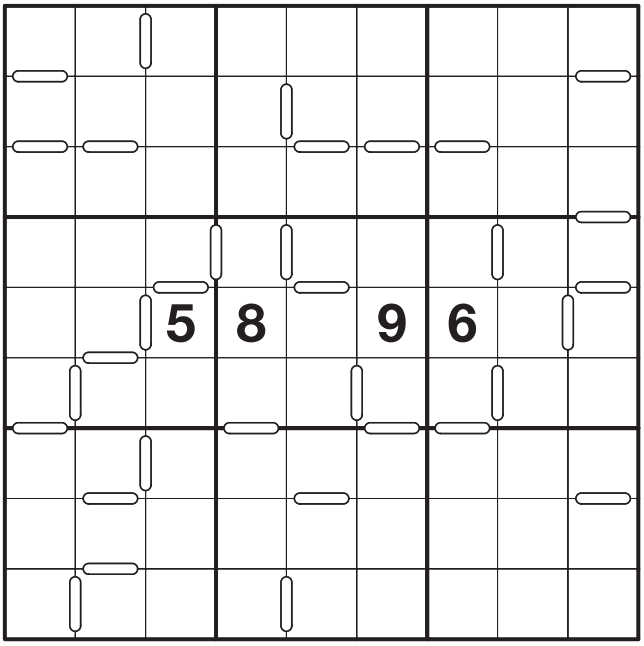
>> Consecutive Sudoku

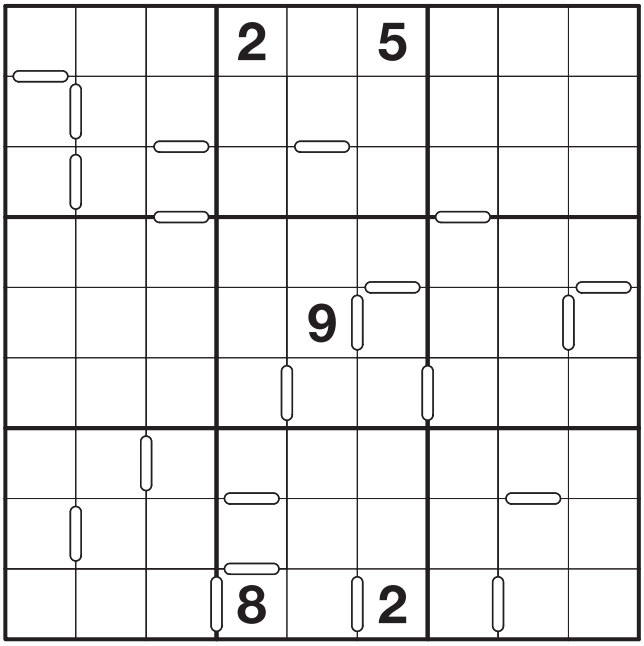
Place 1 to 9 once each into every row, column and marked box, while obeying the white 'consecutive' markers between certain cells.

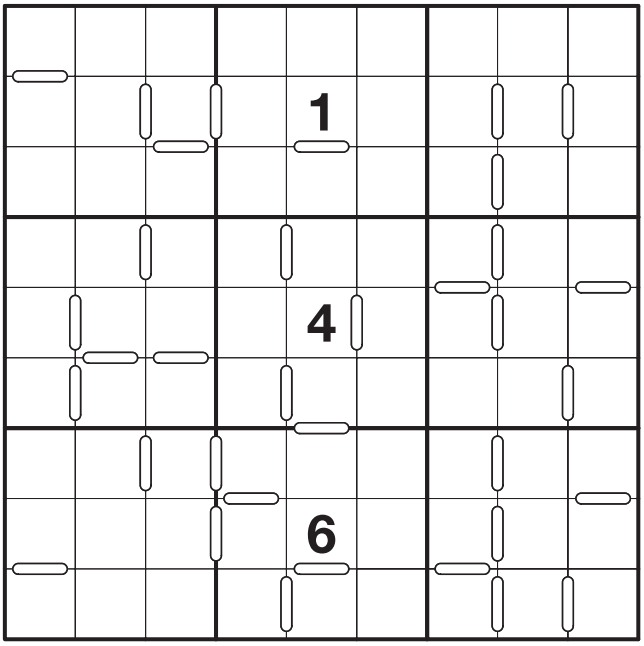
>Consecutive markers indicate **all** adjacent cells with consecutive numbers, such as 1&2, 2&3 or 7&8.

>Don't forget that cells **without** a white marker between are **not** consecutive.









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

>> Hitori

Shade in cells so that no number or letter occurs more than once per row or column.

> Shaded cells cannot touch in either a horizontal or vertical direction.

> All unshaded cells must form a single continuous area.

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

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

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

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

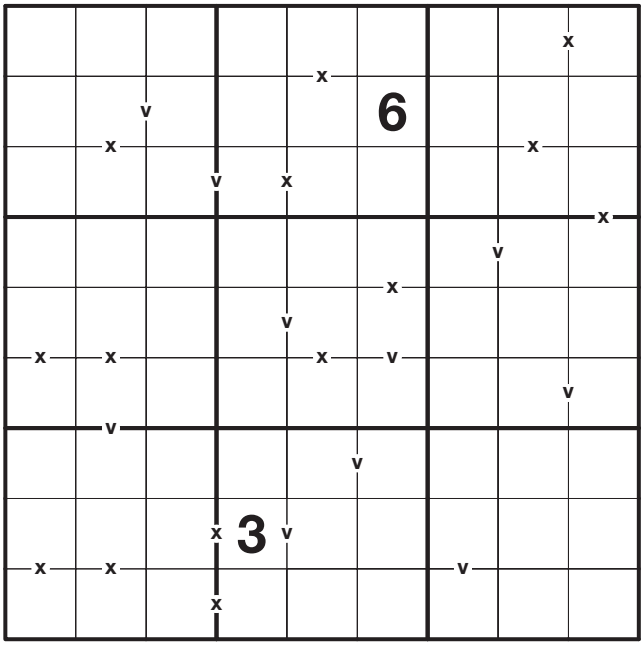
3	4	2	6	5	7	1	8	9
1	8	9	3	2	4	7	5	6
6	5	7	9	8	1	4	3	2
2	1	5	8	7	6	3	9	4
4	3	8	5	1	9	2	6	7
7	9	6	2	4	3	5	1	8
9	7	1	4	6	5	8	2	3
8	6	4	1	3	2	9	7	5
5	2	3	7	9	8	6	4	1

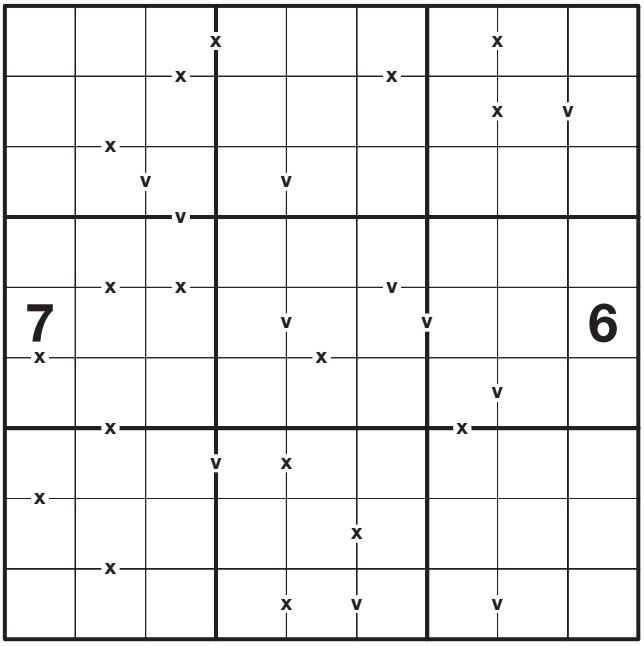
>> Sudoku XV

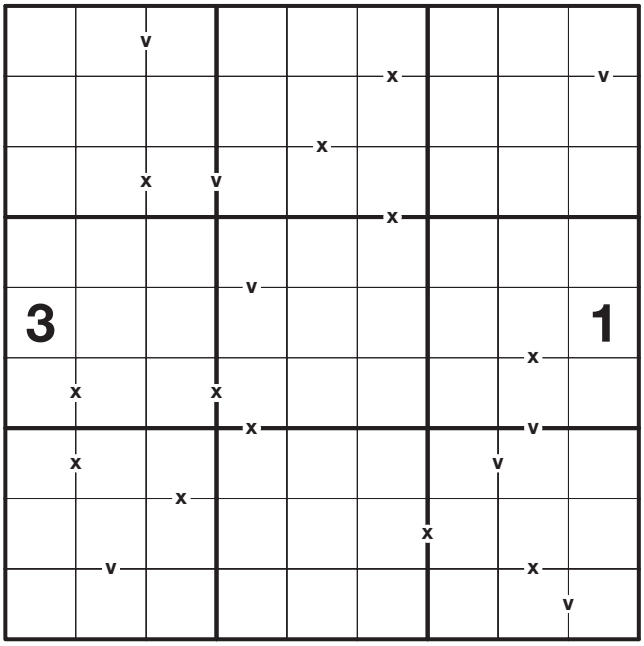
Place 1 to 9 once each into every row, column and 3x3 box.

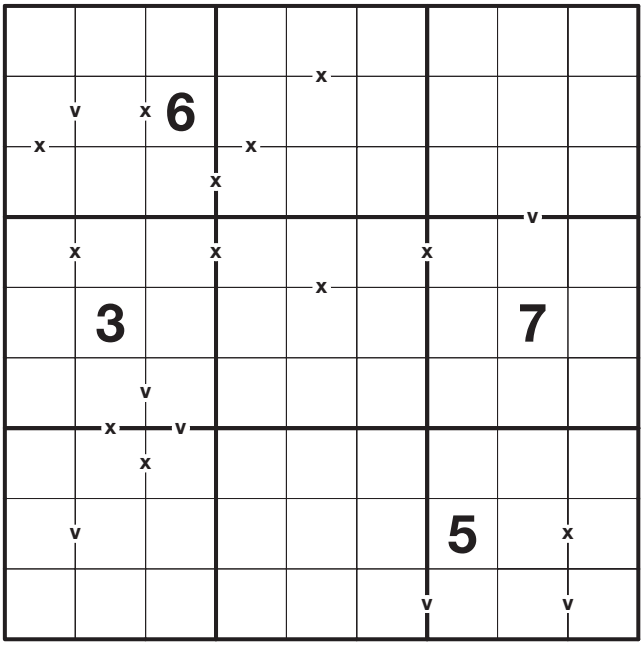
> **All** pairs of neighbouring cells which sum to 5 are marked with a 'v'.

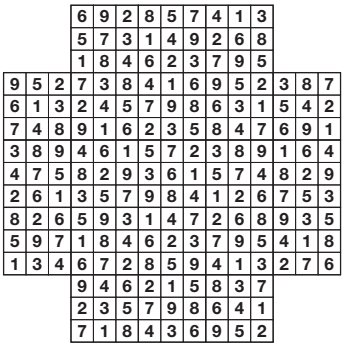
> **All** pairs of neighbouring cells which sum to 10 are marked with an 'x'.









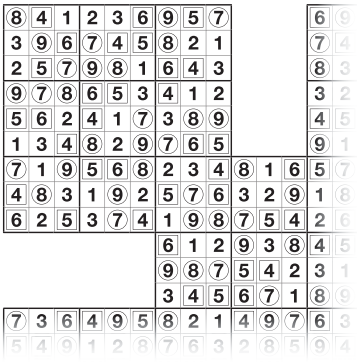


>> Samurai Star

Place 1 to 9 once each into every row, column and marked 3x3 box of each of the five underlying 9x9 grids.

> Don't forget the 'hidden' fifth 9x9 Sudoku grid in the centre of the puzzle.

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

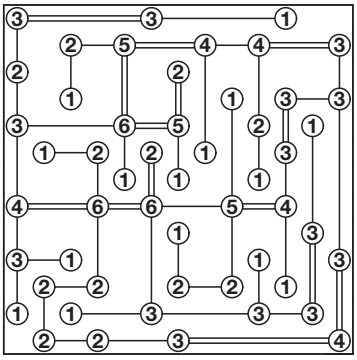


>> Trio 13-grid Samurai Sudoku

Place 1 to 9 once each in every row, column and 3×3 box of each of the thirteen 9×9 grids.

> Cells with no inset shape contain 1, 2 or 3. Cells with an inset circle contain 4, 5 or 6. Cells with an inset square contain 7, 8 or 9.

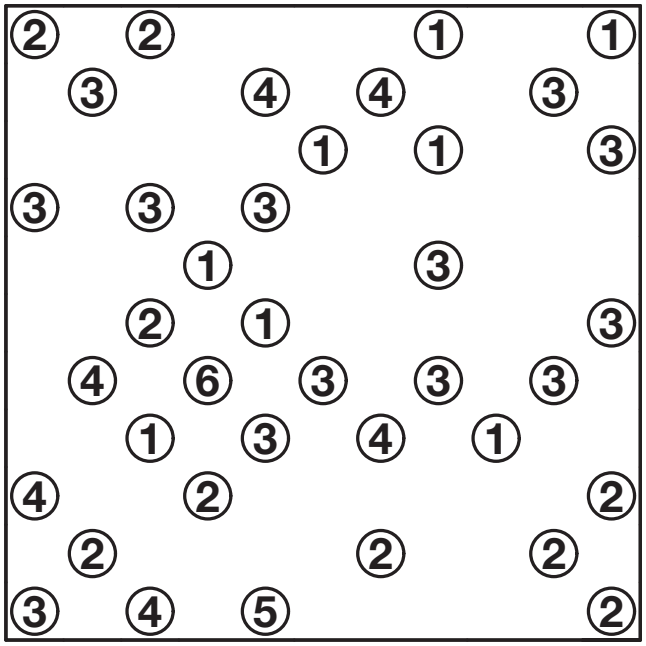
> Note that, as in a regular Samurai, **only** those rows and columns which are within the 13 underlying 9×9 grids are guaranteed to contain all of 1-9. Any row or column not entirely within a single 9×9 grid has no restriction on its content. All bold-lined 3×3 regions contain 1-9.

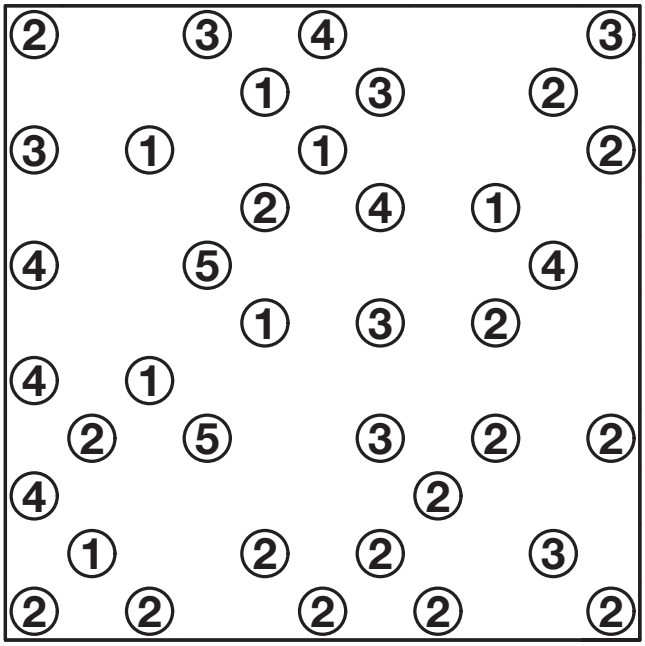


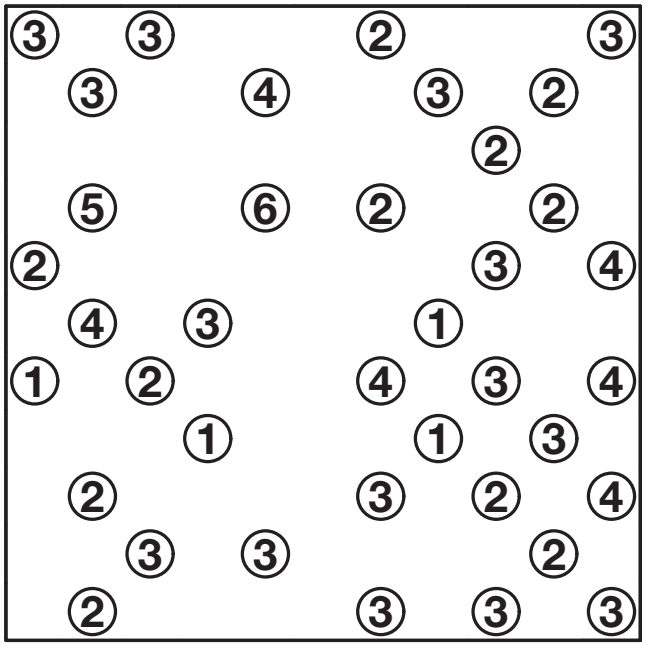
>> Hashi

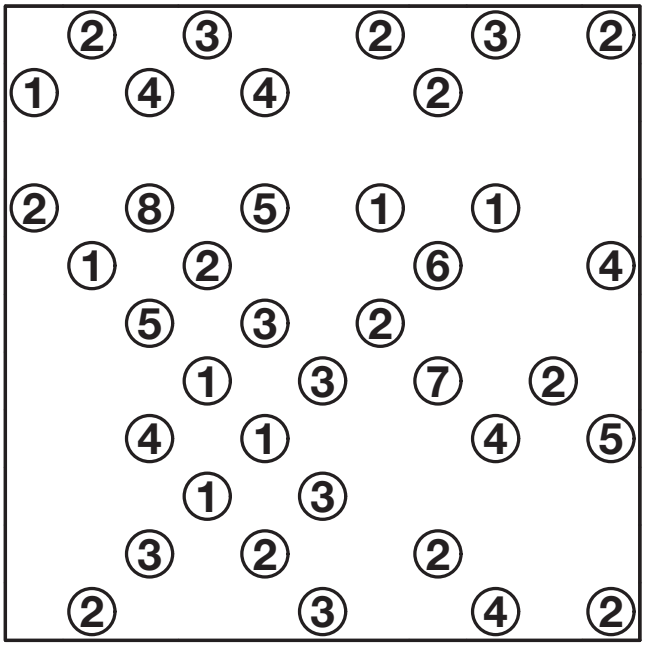
Join circled numbers with horizontal or vertical lines.

> Each number must have as many lines connected to it as specified by its value.
> No more than two lines may join any pair of numbers.
> No lines may cross.
> The finished layout must allow you to travel from any number to any other number just by following one or more lines.





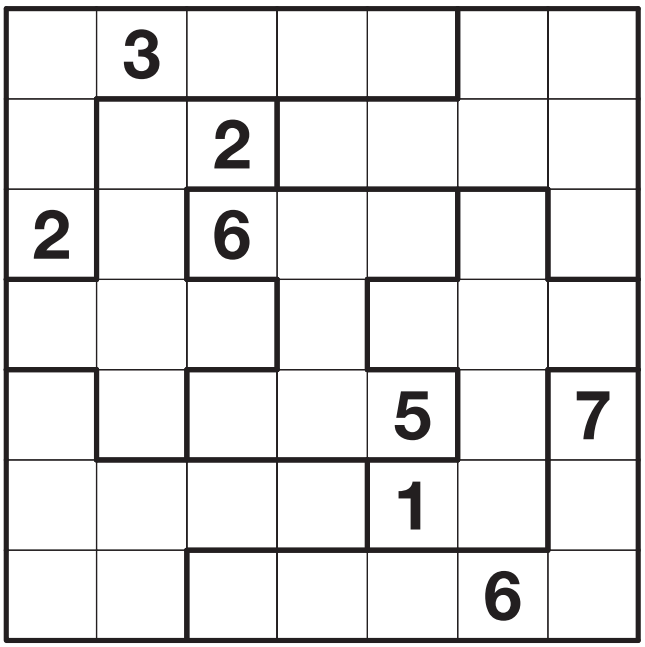


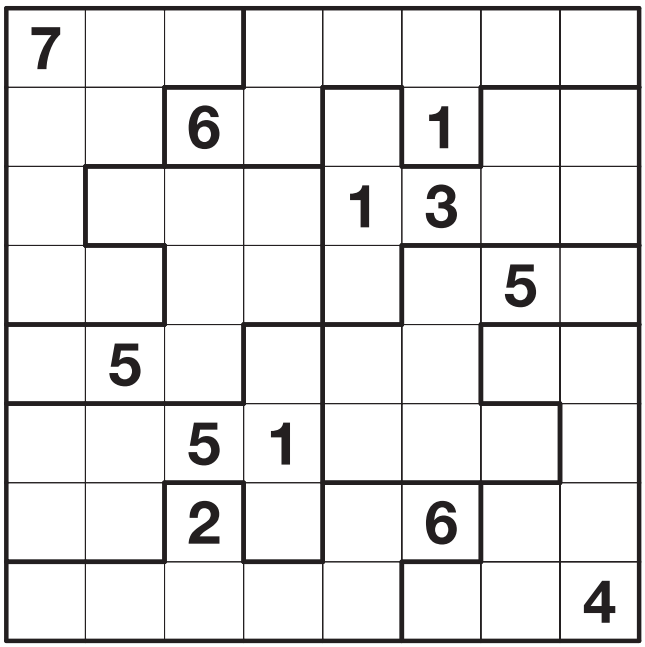


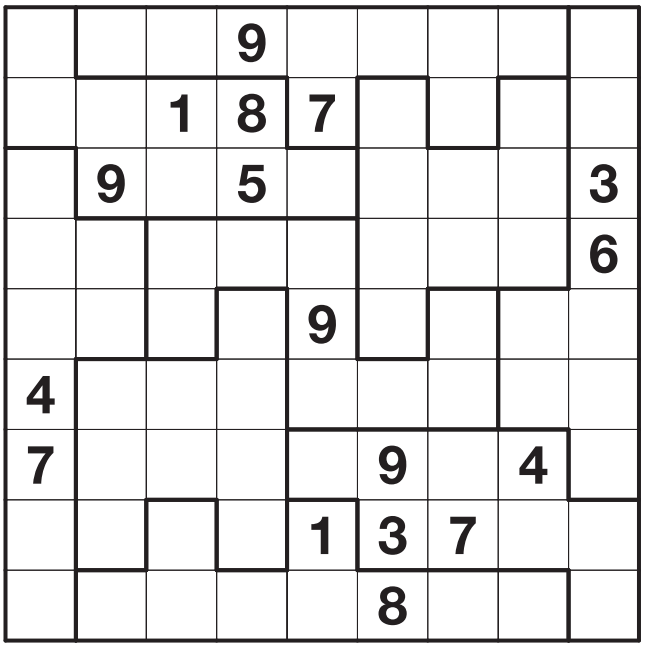
6	5	7	2	8	1	9	3	4
3	4	2	8	9	7	1	6	5
1	8	6	9	4	5	3	2	7
9	3	4	7	1	6	8	5	2
7	1	5	4	2	9	6	8	3
8	9	3	5	6	4	2	7	1
4	2	1	3	7	8	5	9	6
2	7	8	6	5	3	4	1	9
5	6	9	1	3	2	7	4	8

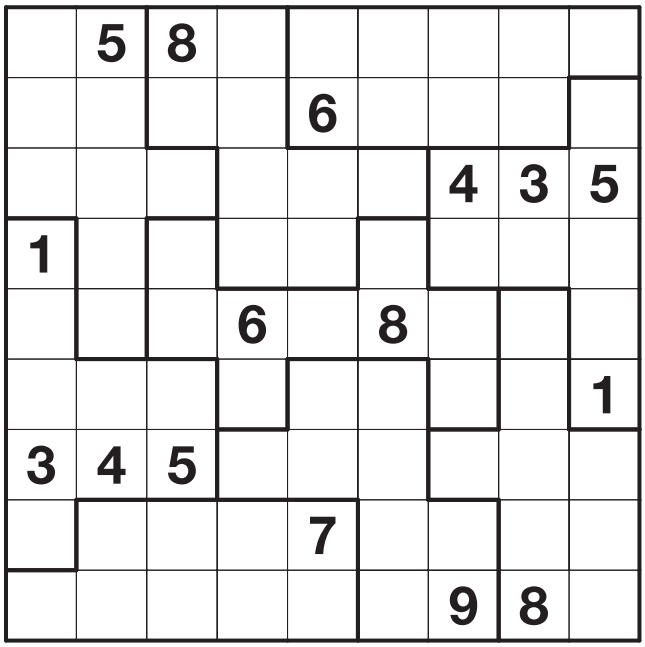
>> Jigsaw Sudoku

Place 1 to 7, 8 or 9 once each into every row, column and bold-lined jigsaw region.







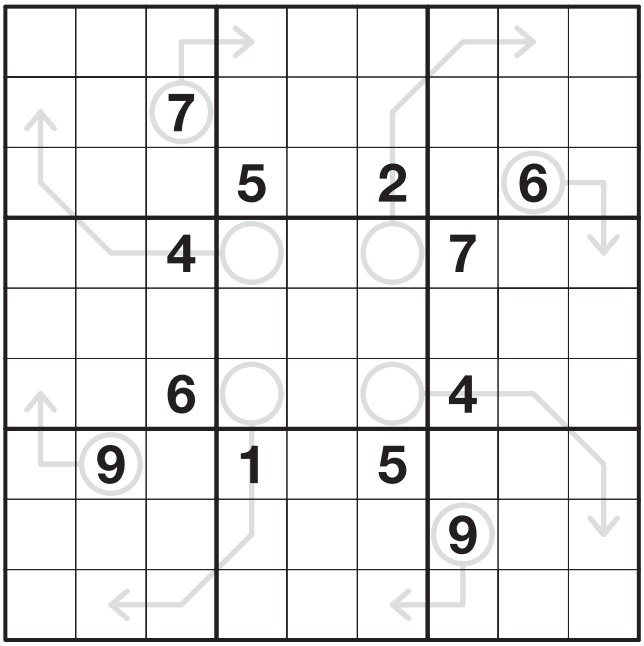


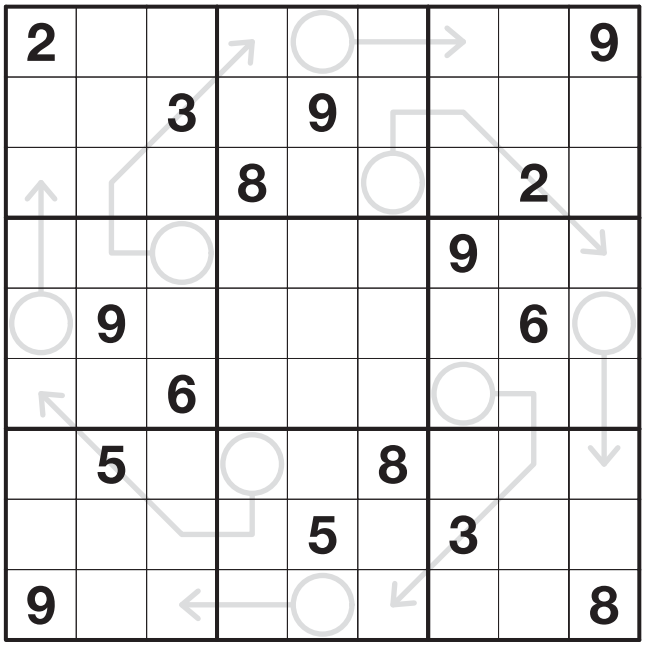
2	5	3	1	8	6	4	7	9
8	6	1	9	7	4	5	2	3
7	4	9	3	2	5	8	1	6
6	3	4	2	5	7	1	9	8
1	7	5	8	6	9	3	4	2
9	2	8	4	1	3	6	5	7
3	8	7	5	4	2	9	6	1
4	1	2	6	9	8	7	3	5
5	9	6	7	3	1	2	8	4

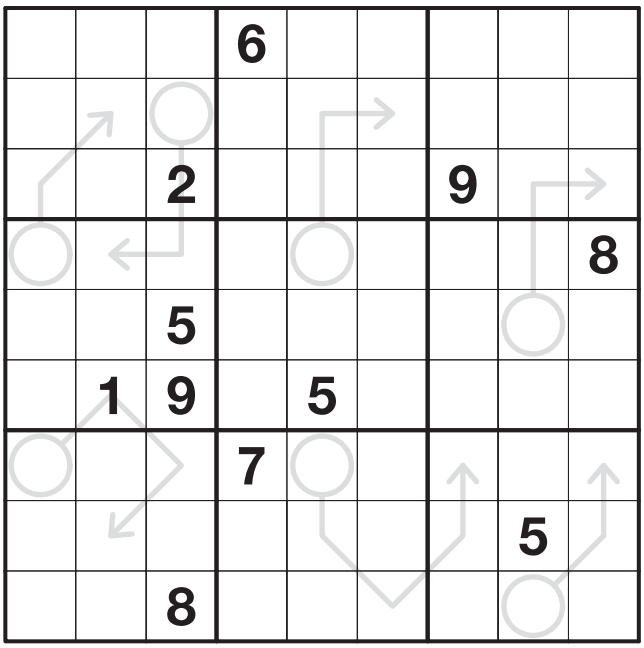
>> Arrow Sudoku

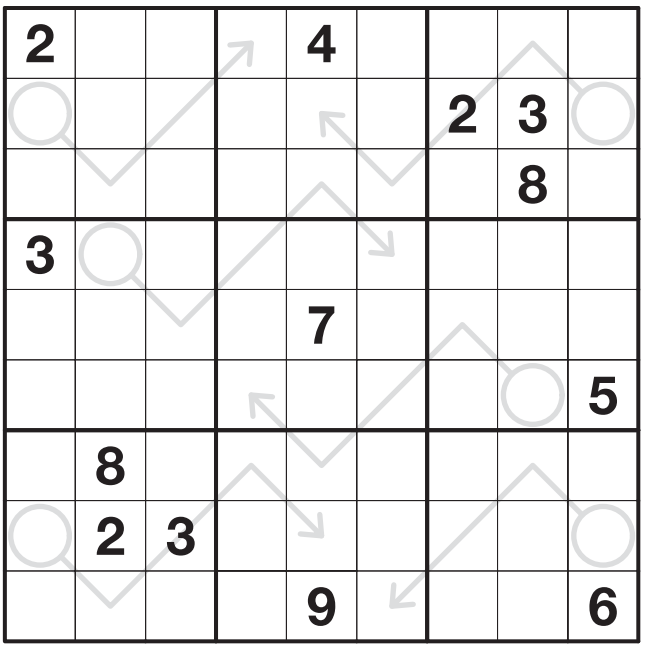
Place 1-9 once each into every row, column and bold-lined 3×3 box.

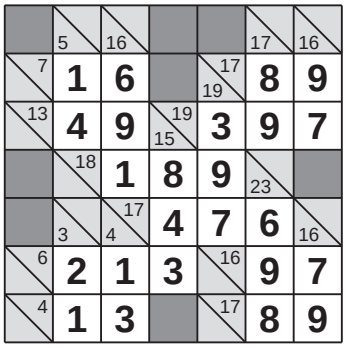
> Digits in circled cells must be equal to the sum of the digits along their attached arrows.









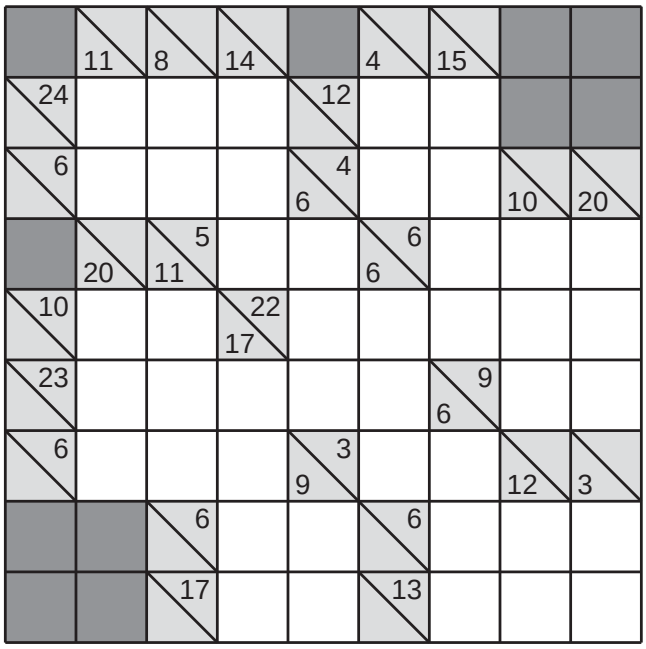


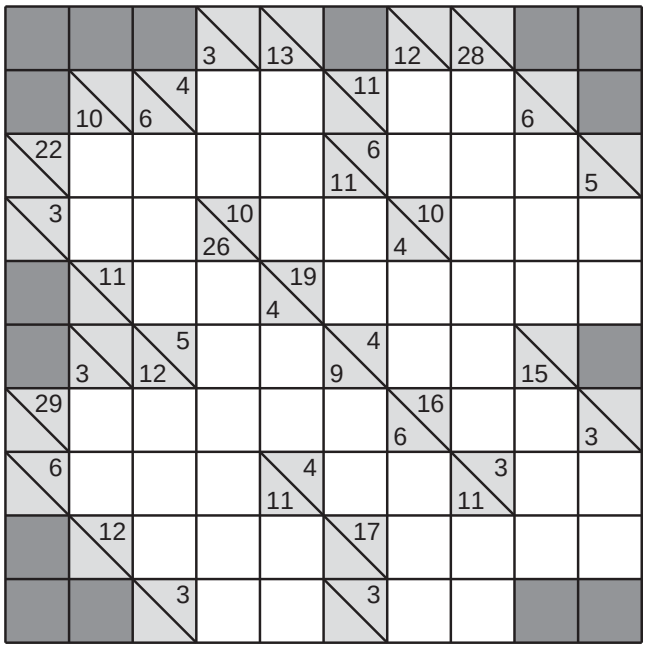
>> Kakuro

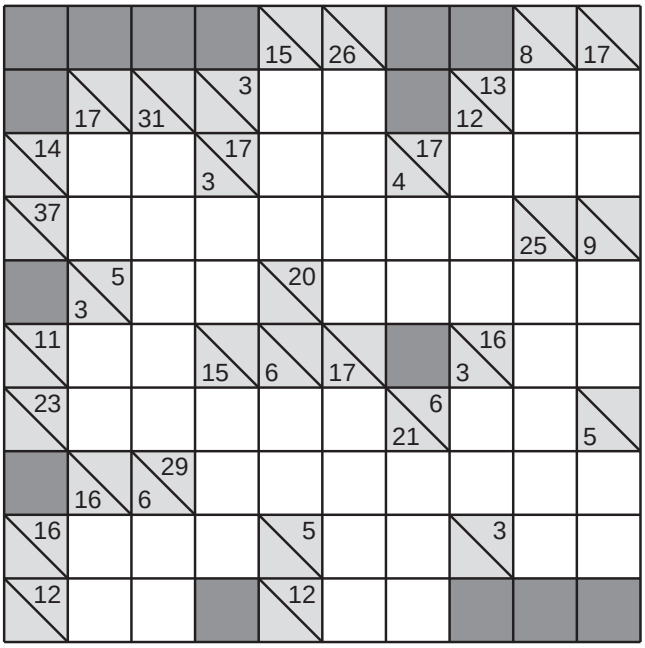
Place a digit from 1 to 9 into each white cell to solve the clues.

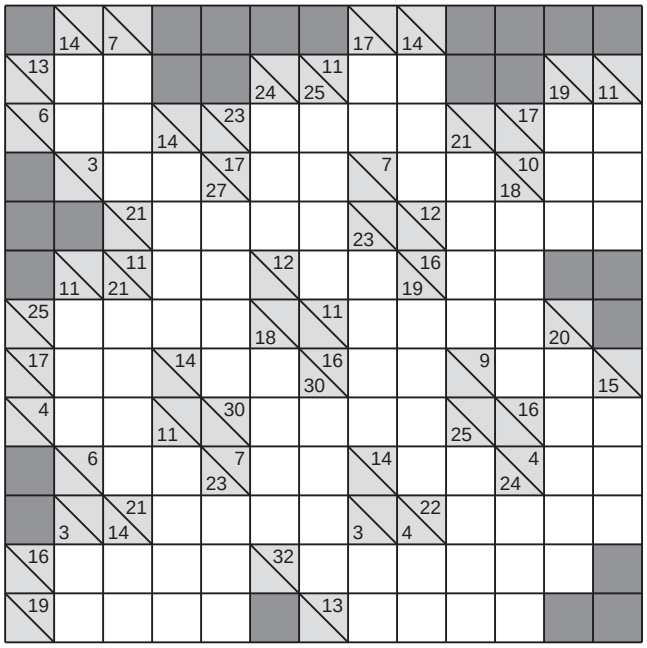
> Each horizontal run of white cells adds up to the total above the diagonal line to the left of the run, and each vertical run of white cells adds up to the total below the diagonal line above the run.

> No digit can be used more than once in any run.







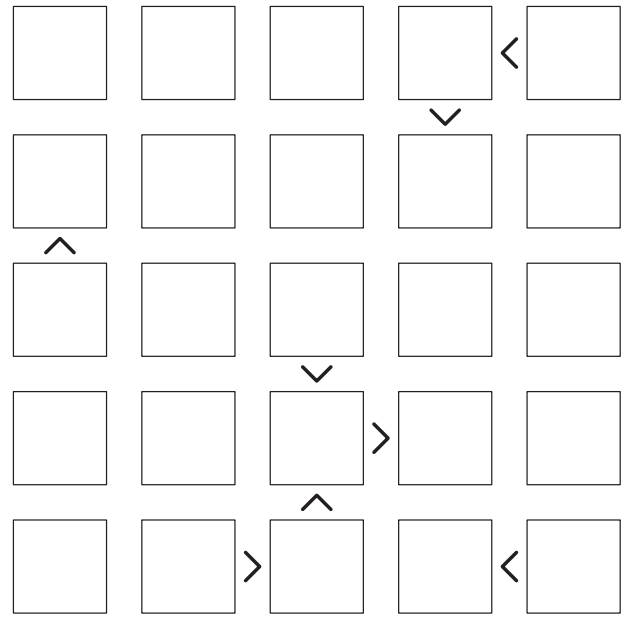


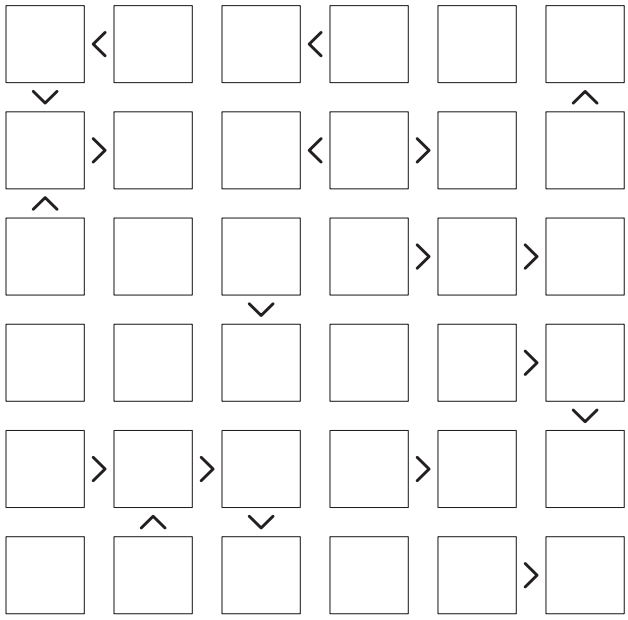
7	2	3	<	5	1	<	6	4
3	1	4	<	6	2	7	5	
1	5	7	2	4	3	6		
4	6	>	2	3	7	5	1	
5	3	>	1	4	6	2	7	
2	<	4	6	<	7	>	5	1	3
6	7	5	1	<	3	<	4	2

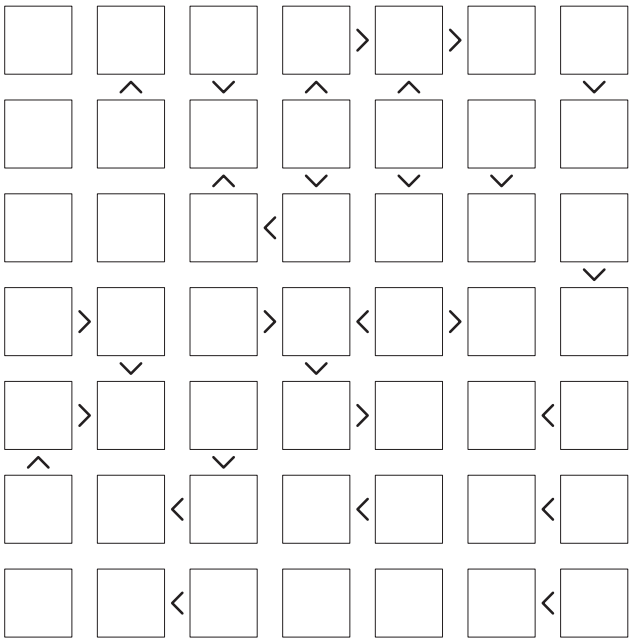
>> Futoshiki

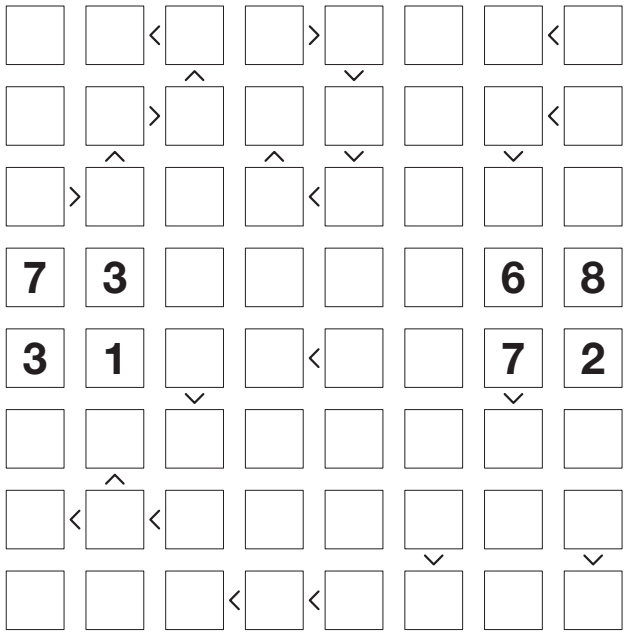
Place 1 to 5, 6, 7 or 8 once each into every row and column while obeying the inequality signs.

> Less than ("<") and greater than (">") signs between some cells indicate that the values in these two cells must be greater than or less than one another as indicated by the sign. The sign always points towards the smaller number.









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

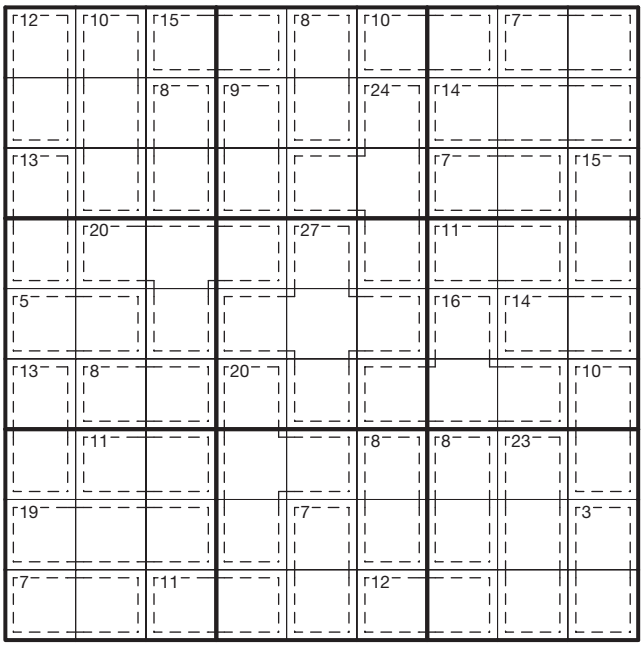
>> Killer Sudoku [Zero]

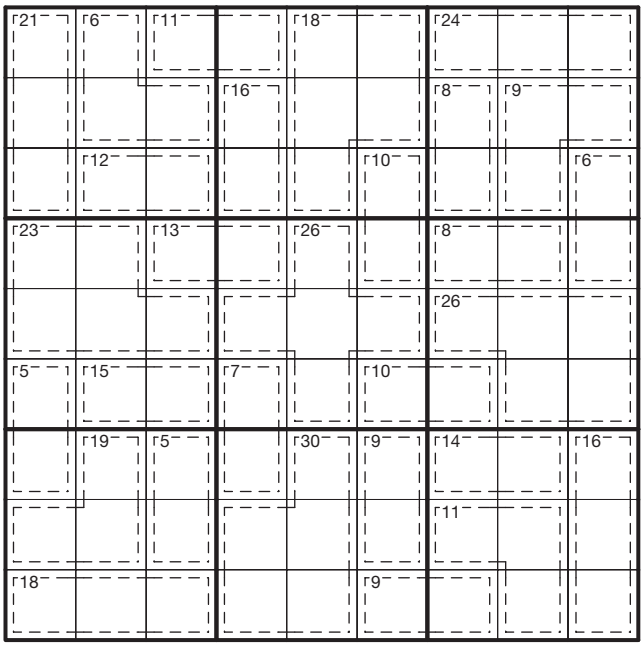
Place each of 1 to 9 into every row, column and 3x3 box while obeying the cage totals.

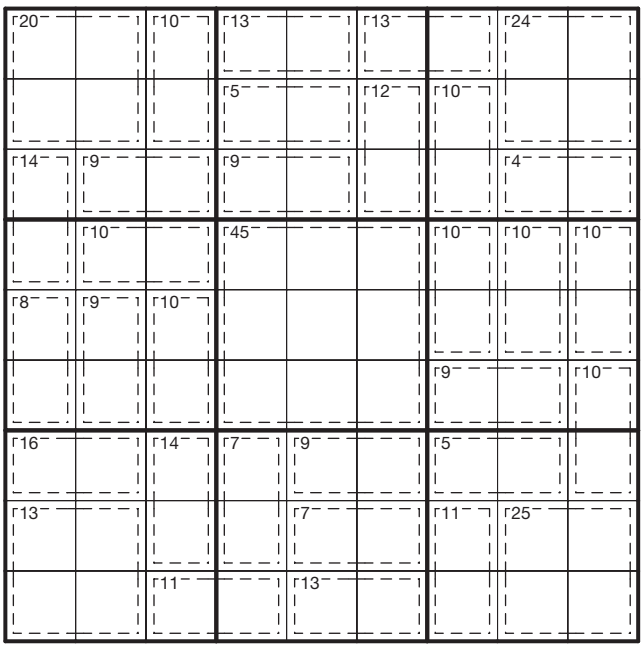
> The contents of each dashed line cage must sum to the total given at the top-left.

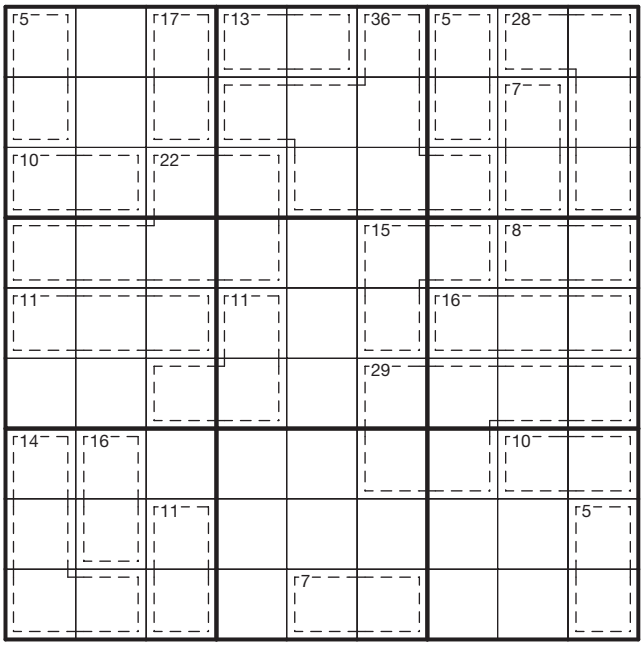
> You **cannot** repeat a number within a dashed line cage.

> In the bottom-right 'Zero' puzzle not all cells are covered by cages.









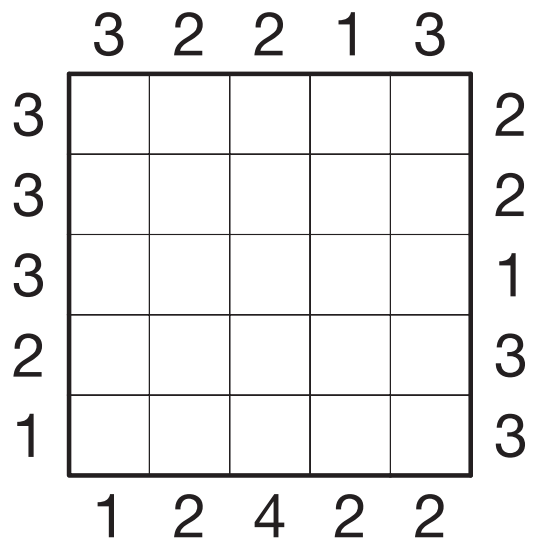
	2	3	4	1	2	
3	1	3	2	5	4	2
1	5	4	1	2	3	3
4	2	1	3	4	5	1
2	3	5	4	1	2	3
2	4	2	5	3	1	3
	2	2	1	3	3	

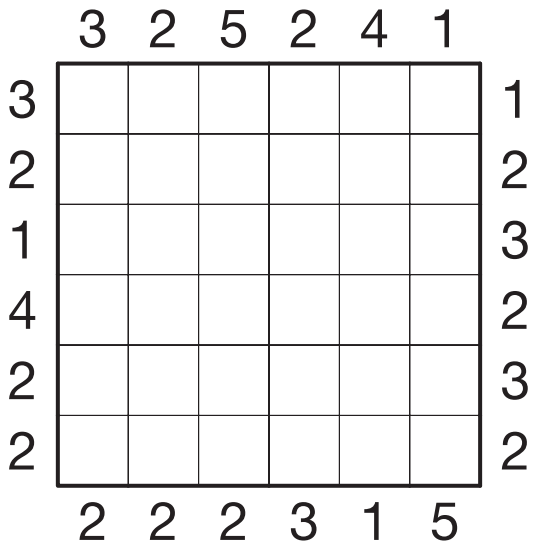
>> Skyscraper

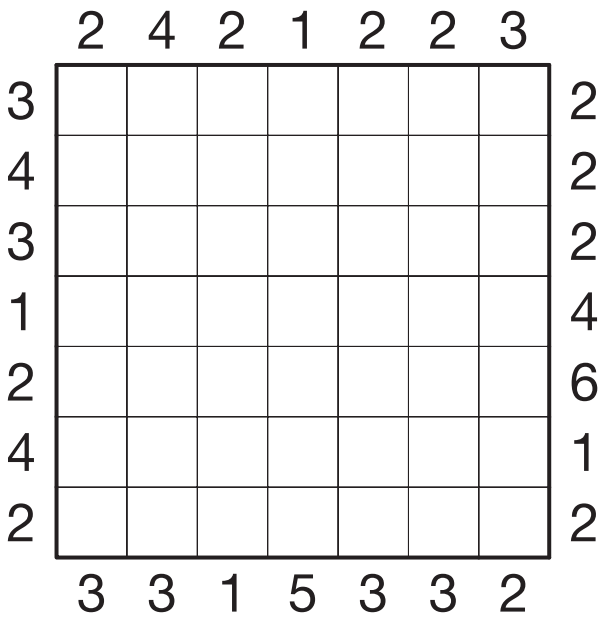
Place each of 1 to 5, 1 to 6 or 1 to 7 into every row and column.

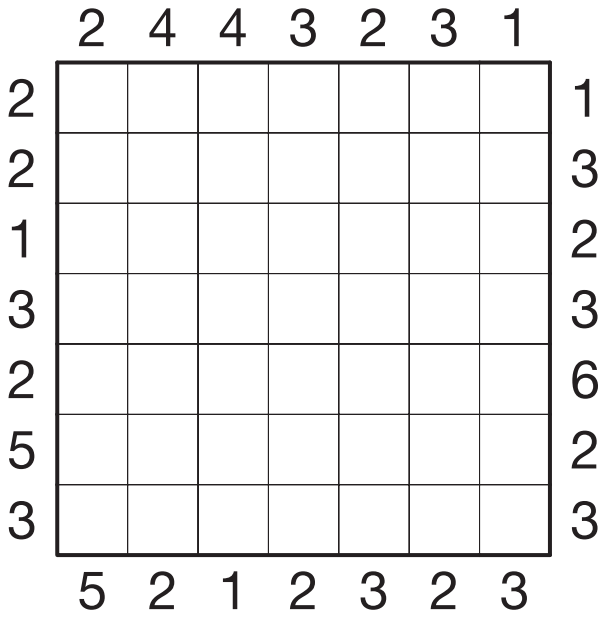
> Each number in the completed grid represents a building of that many storeys. Place the buildings in such a way that each given number outside the grid represents the number of buildings that can be seen from that point, looking only at that number's row or column.

> A building with a higher value always obscures a building with a lower value, while a building with a lower value never obscures a building with a higher value.









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

>> Kropki Sudoku

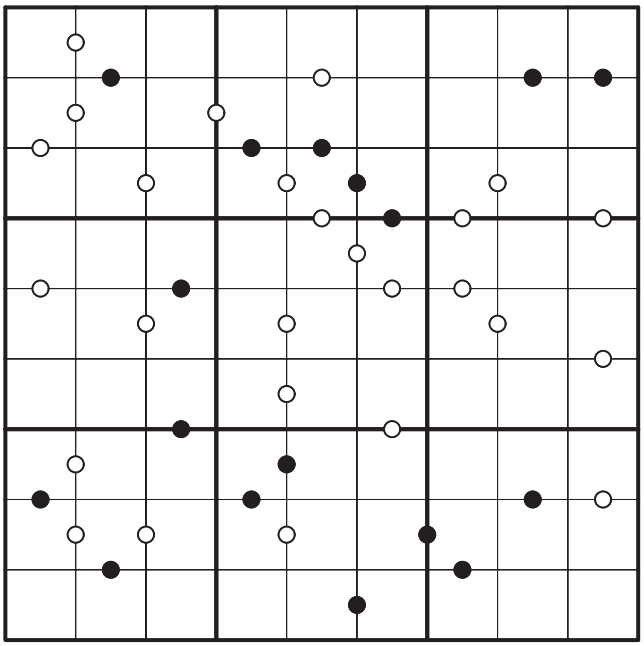
Place 1 to 9 once each into every row, column and marked 3x3 box.

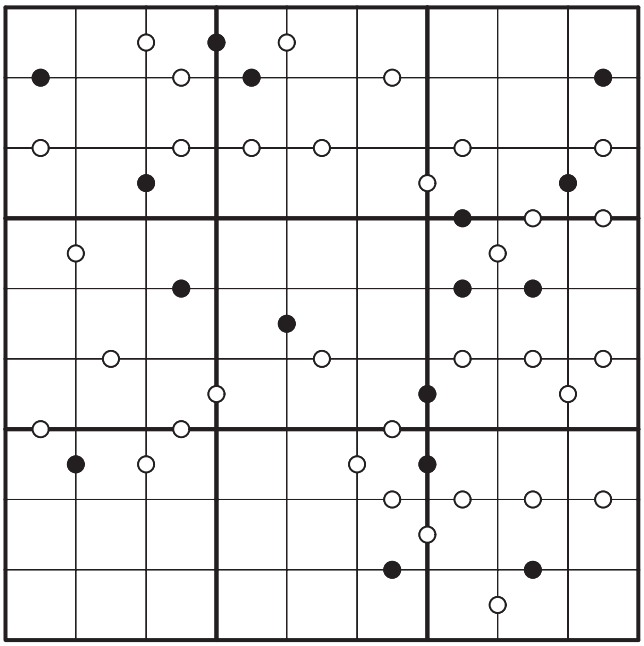
> Two cells with a black dot between contain numbers where one is twice the value of the other.

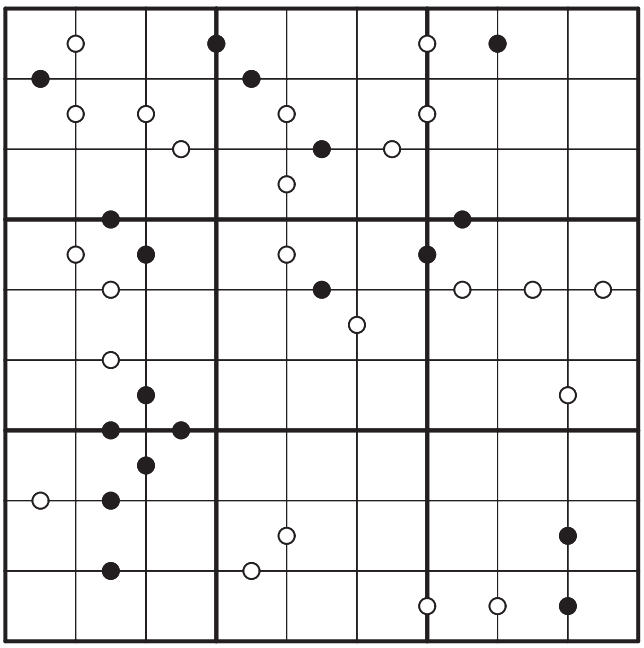
> Two cells with a white dot between contain consecutive numbers, such as 2&3 or 5&6.

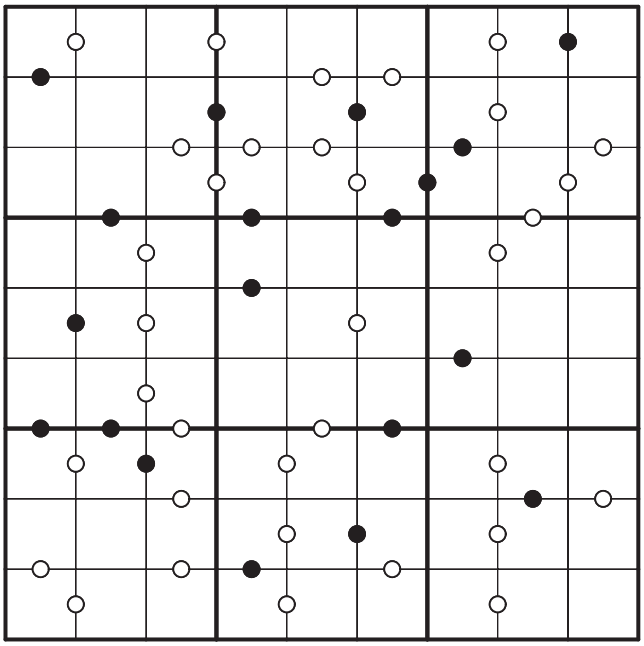
> **All** possible black/white dots are given.

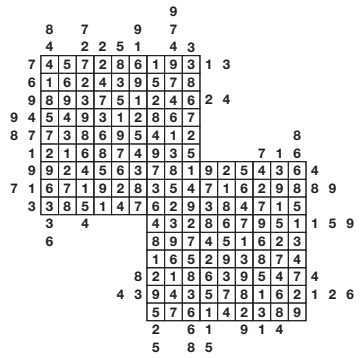
> Between 1&2 either a white or a black dot is used.









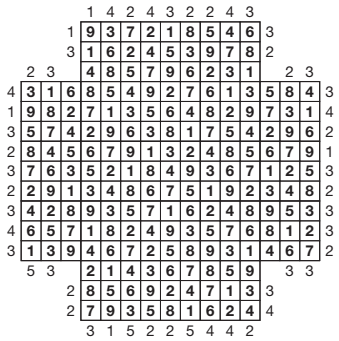


>> SOS: Samurai Outside Sudoku

Place 1 to 9 once each into every row, column and 3x3 box of each of the underlying five 9x9 Sudoku grids, while obeying the outside clues.

> Numbers outside the grid must be placed into the first three cells in the relevant row or column, but not necessarily in the order given.

> See the two-grid example solution on the left to see how this works.

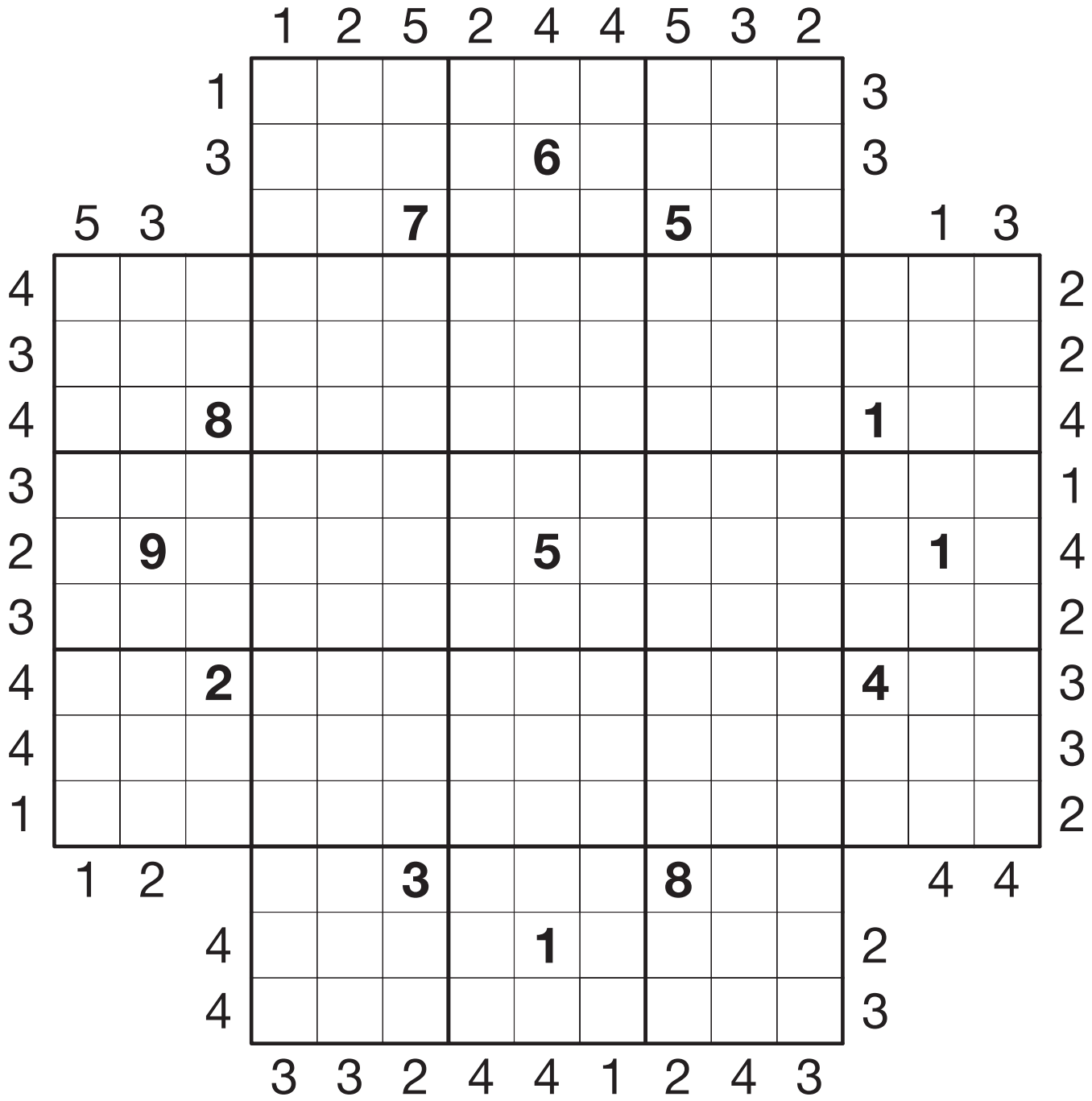


>> SSSS: Skyscraper Samurai Star Sudoku

Place 1 to 9 once each into every row, column and marked 3x3 box of each the five underlying 9x9 grids, while obeying the Skyscaper clues.

> Don't forget the 'hidden' fifth 9x9 Sudoku grid in the centre of the puzzle.

> See page 17 for instructions on solving Skyscraper clues.

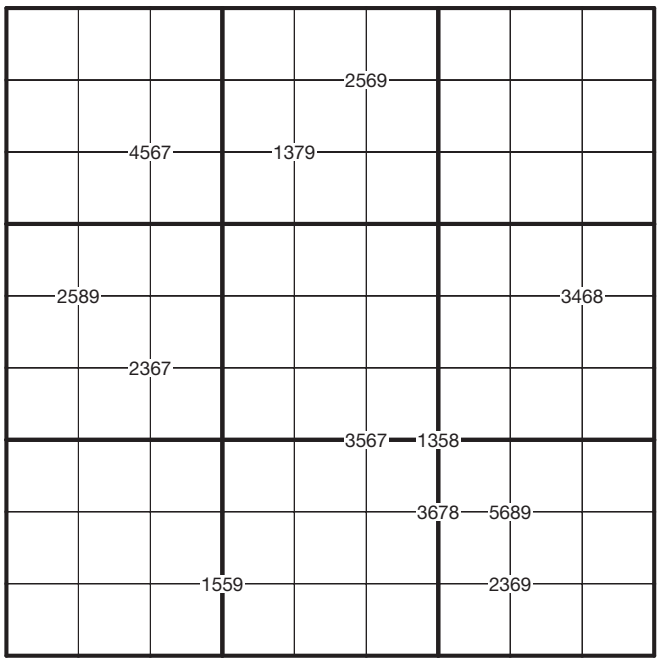


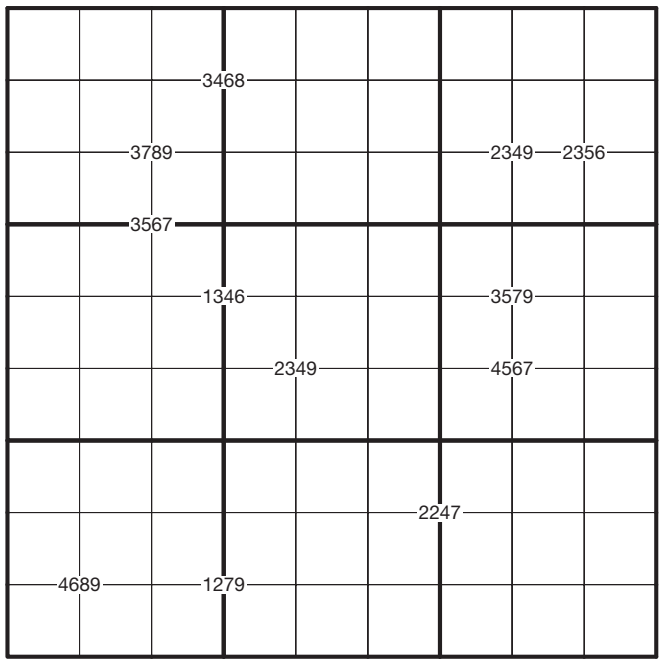
4	6	8	5	1	2	7	3	9
3	1	5	7	4	9	6	2	8
9	2	7	6	8	3	5	4	1
8	4	2	3	6	7	1	9	5
7	5	3	2	9	1	4	8	6
1	9	6	4	5	8	3	7	2
6	7	4	8	2	5	9	1	3
5	8	9	1	3	4	2	6	7
2	3	1	9	7	6	8	5	4

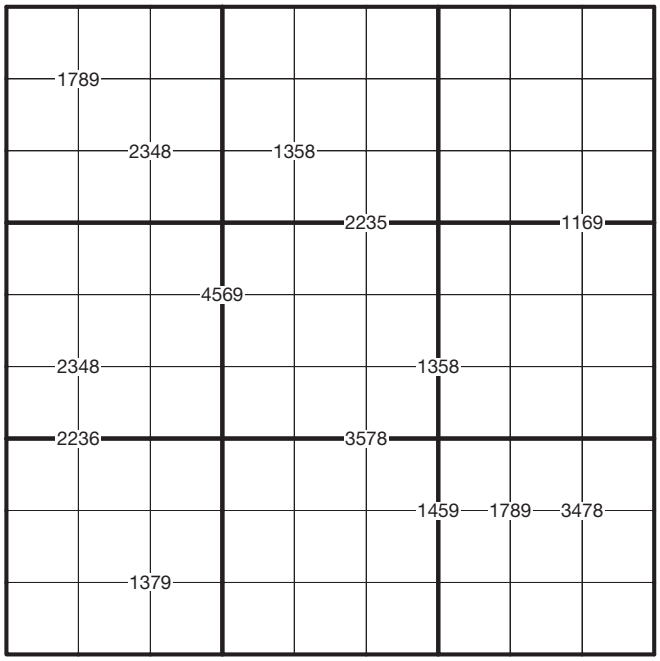
>> Quad Clue Sudoku

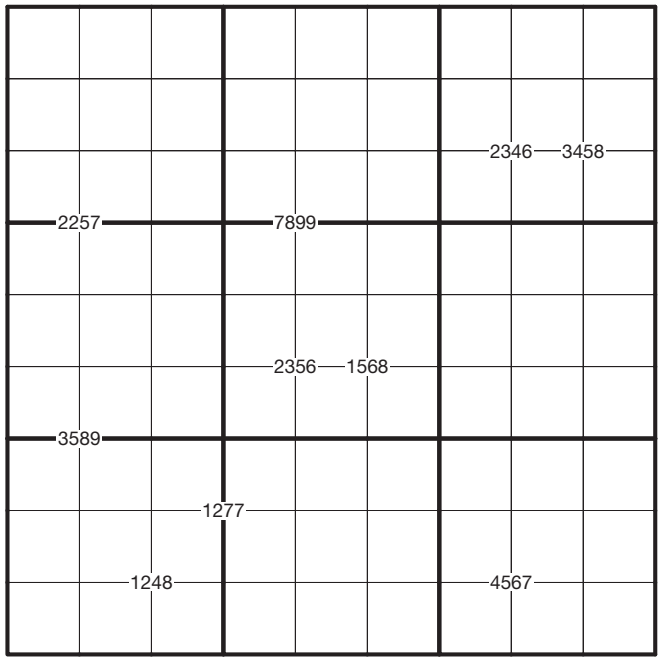
Place 1-9 once each into every row, column and bold-lined 3×3 box.

> Wherever four digits are given on the intersection of four cells then these four digits must be placed into those four cells in the given distribution. It is up to you to work out which digit goes into which cell.







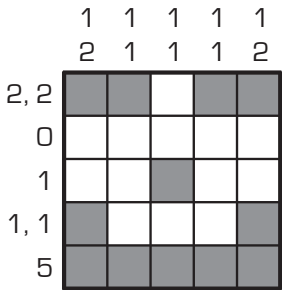


>> Hanjie

Shade in cells in the grid to reveal a picture while obeying the clue constraints at the start of each row or column.

> Numbers outside provide, in order, the length of every run of consecutive shaded cells in each row or column.

> There must be a gap of at least one empty cell between each run of shaded cells in the same row or column.



				2	2					2				
			5	1	1	1			2	1				
		1	1	1	1	1	1	1	1	1	2			
		3	4	1	1	4	1	1	1	1	1	3		
	1	15	1	1	1	1	1	7	1	1	7	1	10	1
3															
1, 1, 5															
1, 3, 2															
1, 2, 2															
3, 2															
2, 2															
15															
1, 1															
1, 4, 4, 1															
1, 1, 1, 1, 1, 1															
1, 1, 1, 1, 1, 1															
1, 4, 1, 2, 1															
1, 1, 1, 1															
1, 1, 1, 1															
13															

Clue (top):
Homely

Clue (bottom):
Hammering

				4		1		1	1	1	4			
2			2	5	4	2	1	1	1	1	2	13		6
5	11	13	11	2	3	2	8	1	1	1	4	1	15	8
3, 5															
5, 4															
3, 6, 4															
6, 4															
3, 2, 3															
3, 2, 3															
5, 1, 2															
5, 1, 3															
5, 1, 4															
5, 8															
5, 1, 3															
3, 2, 4															
2, 10															
3, 1, 2															
2, 4															

>> Dominoes

Can you place a full set of dominoes into each grid?

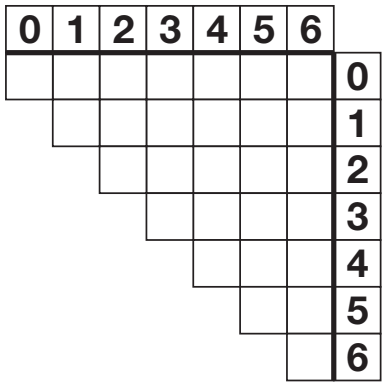
> Draw along the dashed lines to indicate where each domino is placed.

> Use the chart to check off dominoes you've already placed.

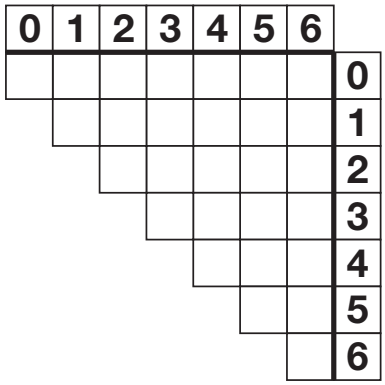
> 0 represents a blank on a domino.

> Each domino occurs exactly once in each grid.

2	5	5	3	0	3	4	5
2	5	0	5	0	3	3	0
3	2	6	4	0	6	5	5
6	6	1	4	6	6	1	1
4	6	2	1	5	4	0	1
2	6	2	4	2	1	0	4
3	3	1	1	0	4	3	2

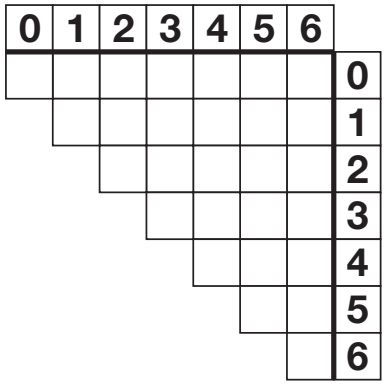


6	4	6	6	3	0	1	1
6	1	1	0	4	0	3	2
5	1	6	5	4	2	2	5
6	0	1	0	3	3	3	0
5	1	5	3	5	1	5	3
2	2	4	6	4	3	5	0
4	6	4	2	0	2	4	2



3	5	0	1	2	3	3	6
1	3	4	4	1	2	4	2
4	4	4	2	3	1	0	6
2	1	0	4	5	1	0	5
5	5	5	0	5	1	6	6
0	2	4	6	5	6	3	3
0	6	1	3	2	2	6	0

3	3	1	0	1	2	4	5
2	4	2	0	6	5	2	4
3	4	0	5	5	0	2	3
3	0	3	4	0	1	0	2
3	5	4	6	0	4	6	5
1	5	1	1	5	2	6	1
6	6	3	1	6	2	6	4



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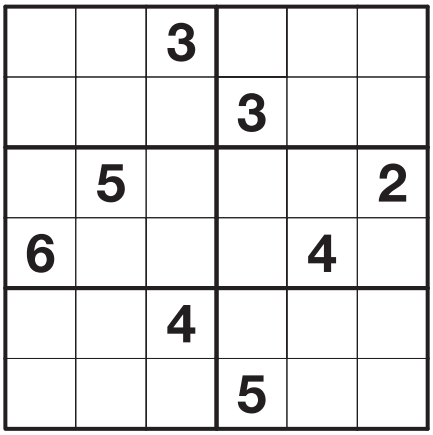
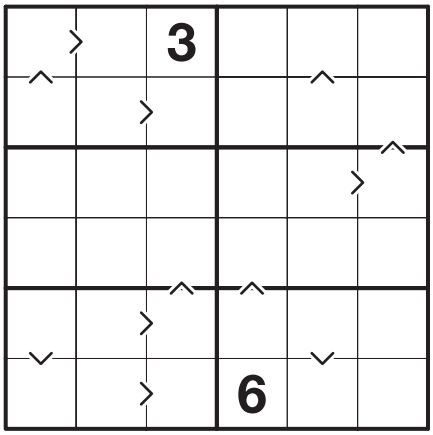
6	4	1	5	2	3
1	5	4	6	3	2
4	1	2	3	5	6
5	3	6	2	4	1
3	2	5	1	6	4
2	6	3	4	1	5

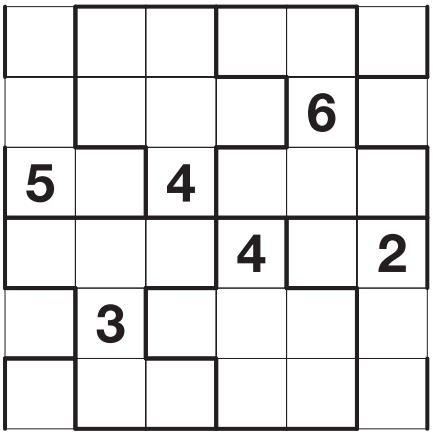
>> Sudoku 6x6 Variety Pack

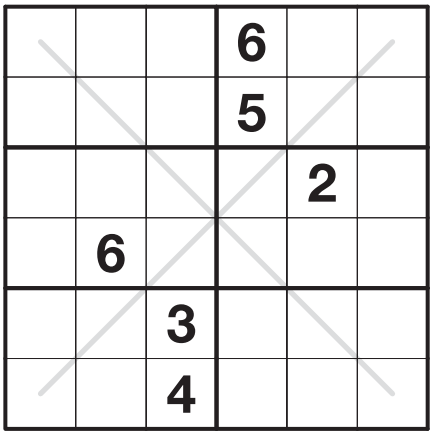
Place 1 to 6 once each into every row, column and bold-lined region.

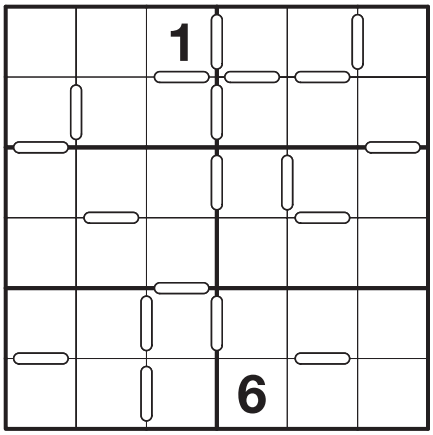
> Puzzle 1: Regular Sudoku 6x6
> Puzzle 2: Obey the inequality signs: arrows points to smaller numbers
> Puzzle 3: Toroidal jigsaw - regions wrap around the outside of the grid
> Puzzle 4: No digit can repeat on either of the two grey main diagonals
> Puzzle 5: White bars show **ALL** consecutive value neighbours (e.g.1&2)
> Puzzle 6: Killer Sudoku Pro (see P.27; no digits repeat in any killer cage)

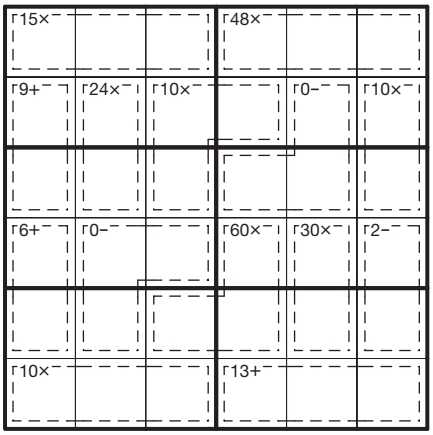












7	8	2	1	6	9	4	3	5
1	6	5	2	4	3	9	7	8
9	4	3	7	5	8	2	1	6
2	1	8	9	3	6	5	4	7
4	9	7	5	1	2	8	6	3
3	5	6	4	8	7	1	9	2
5	2	9	3	7	4	6	8	1
6	7	1	8	9	5	3	2	4
8	3	4	6	2	1	7	5	9

>> Sudoku Extra Regions [Shifted] [Windmill]

Place 1 to 9 once each into every row, column, continuous shaded area and bold-lined 3x3 box.

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

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

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

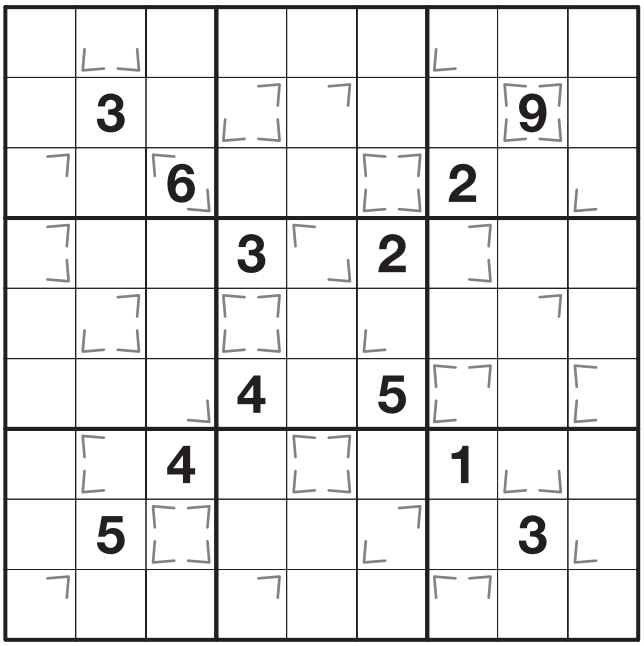
		3		4				
					8			
			1					9
	2			7		5		
3			8		4			1
		4		1			6	
4					6			
			5					
				2		7		

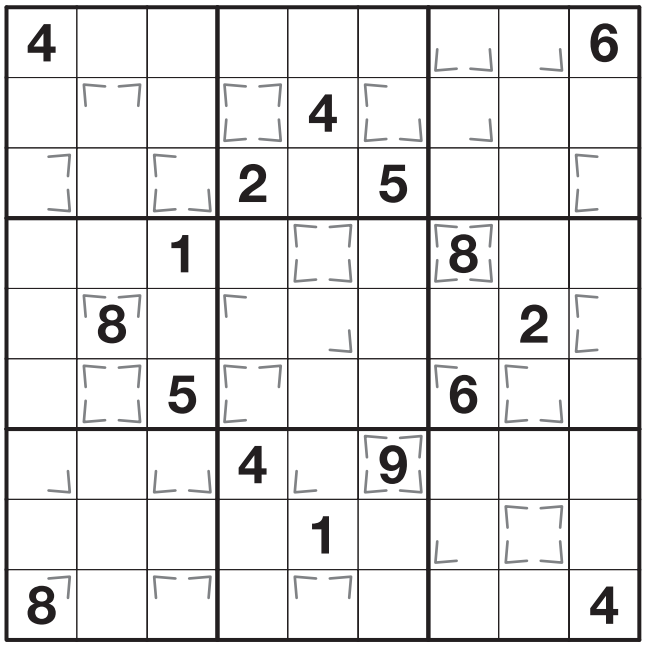
9	8	7	5	2	6	3	1	4
3	1	6	4	9	7	2	5	8
2	4	5	3	1	8	7	9	6
5	9	2	8	7	1	4	6	3
6	7	1	9	4	3	8	2	5
8	3	4	6	5	2	1	7	9
7	6	3	1	8	5	9	4	2
4	2	8	7	6	9	5	3	1
1	5	9	2	3	4	6	8	7

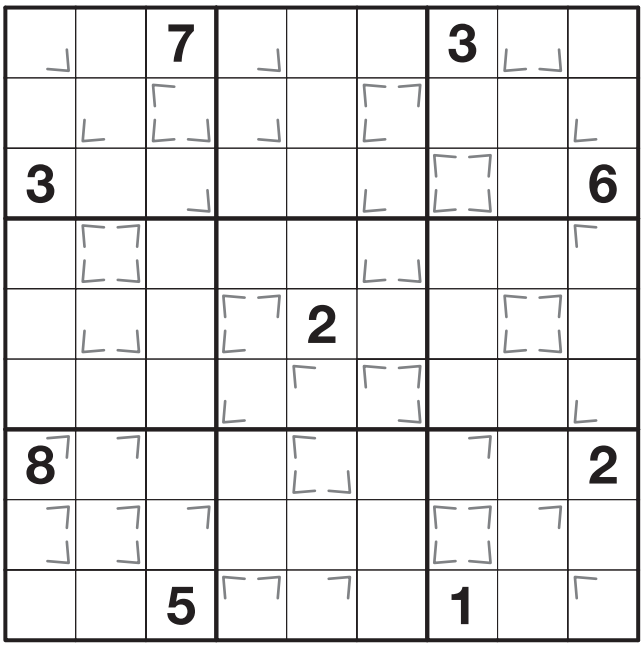
>> Quad Max Sudoku

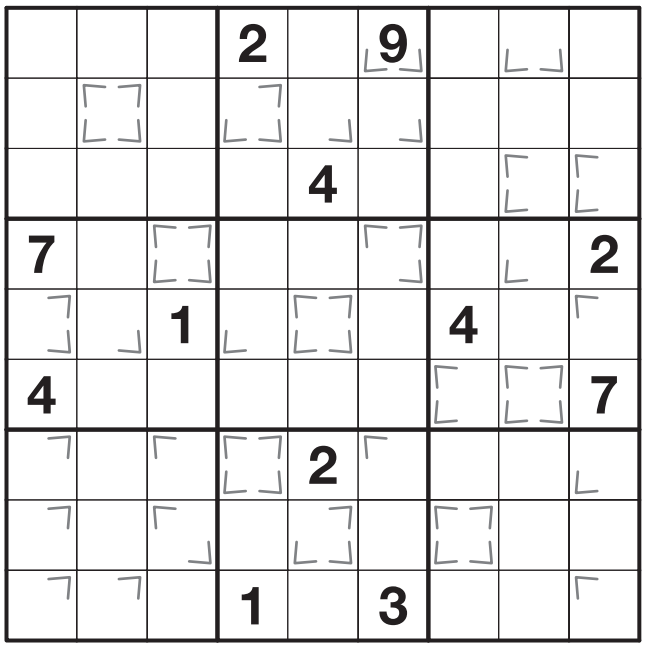
Place 1-9 once each into every row, column and bold-lined 3×3 box.

> If the value in a cell is greater than its three touching neighbours in any one corner than a greater-than arrow is shown in that corner.









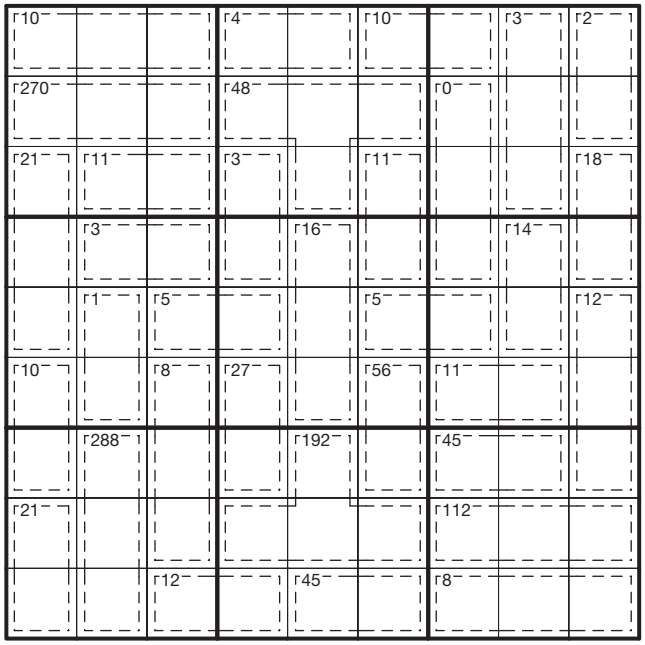
1	9	6	7	4	3	2	5	8
3	4	2	6	8	5	9	7	1
7	8	5	1	9	2	3	4	6
4	5	9	2	1	8	6	3	7
6	2	1	3	5	7	4	8	9
8	7	3	4	6	9	1	2	5
5	6	4	8	2	1	7	9	3
2	3	8	9	7	6	5	1	4
9	1	7	5	3	4	8	6	2

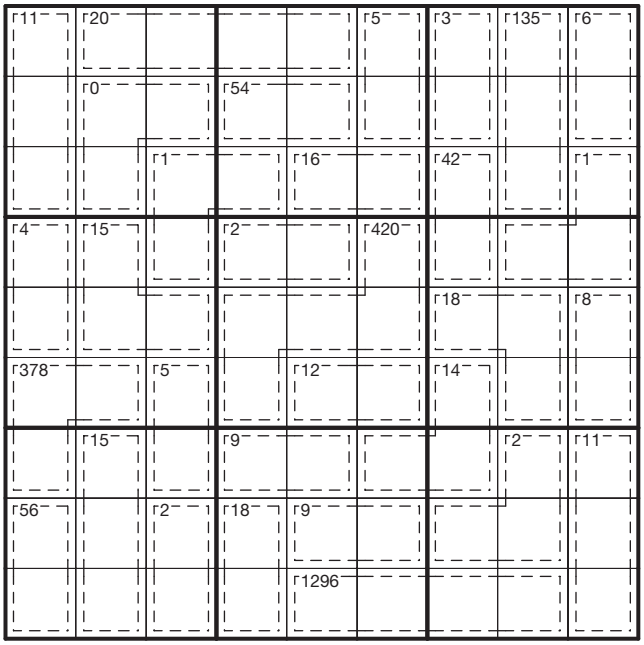
>> Mystery Killer Sudoku Pro

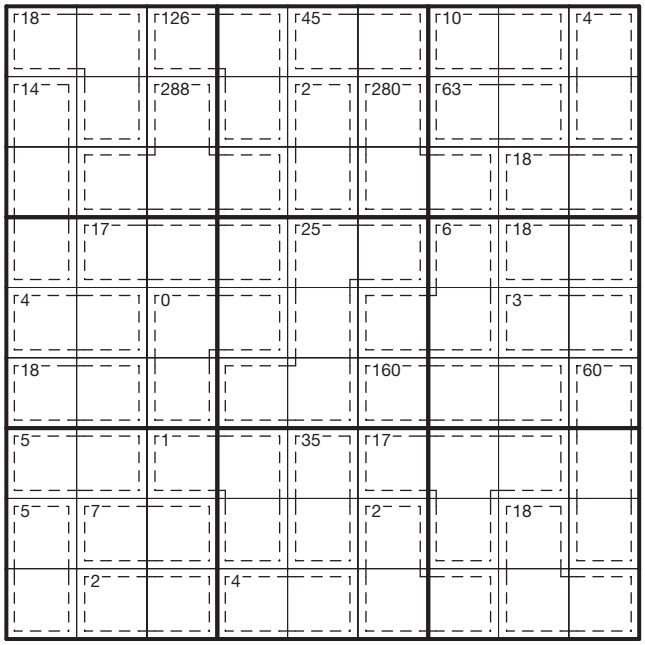
Place 1-9 once each into every row, column and bold-lined 3×3 box.

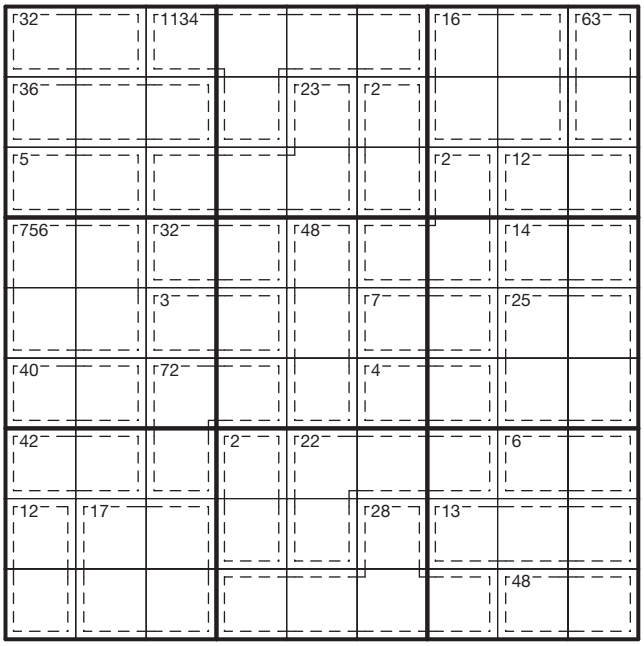
> No digit may be repeated in any dashed-line cage, and each dashed-line cage must result in the given value when a particular operation is applied between all of the digits in that cage. That operation may be addition, subtraction, multiplication or division – it is up to you to work out which.

> For subtraction and division operations, start with the highest digit in the cage and then subtract or divide by the other digits in that cage.









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

>> Slashed Sudoku

Place 1-9 once each into every row, column and bold-lined 3×3 box.

> No digit can be repeated along any marked diagonal line. (Note that of course the 2-long and 3-long diagonal lines at the corners are not necessary to the puzzle since numbers can't repeat in a 3×3 box anyway – they're included just for the visual effect!)

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

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

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

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

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

>> Anti-Knight Sudoku

Place 1-9 once each into every row, column and bold-lined 3×3 box.

> No two identical digits can be a knight's move in chess apart. That is, if you move one cell horizontally or vertically and then two cells in a perpendicular direction the cell you end up at must **not** contain the same value.

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

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

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

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

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

>> Sudoku 8x8

Place 1-8 once each into every row, column and bold-lined 4×2 box.

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

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

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

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

>> Sudoku 15x15

Place 1 to 9 and A to F once each into every row, column and 5x3 bold-lined box.

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

If you're a fan of giant Sudoku puzzles then check out the **Sudoku Xtra Specials** series on **www.SudokuXtra.com** - books of **Sudoku 25x25**, **20x20**, **18x18**, **16x16**, **15x15** and **12x12** are now available.

>> Sudoku 16x16

Place 1 to 9 and A to G once each into every row, column and 4x4 bold-lined box.

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

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

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

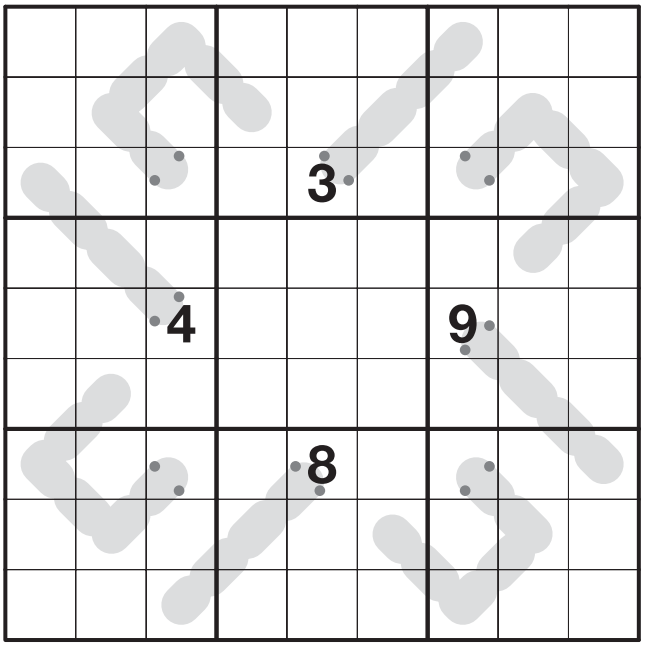
7	2	5	6	4	1	8	3	9
3	8	1	7	5	9	4	6	2
9	4	6	2	3	8	7	1	5
8	9	7	4	1	2	3	5	6
4	5	2	8	6	3	9	7	1
1	6	3	9	7	5	2	8	4
5	1	9	3	2	7	6	4	8
2	7	4	5	8	6	1	9	3
6	3	8	1	9	4	5	2	7

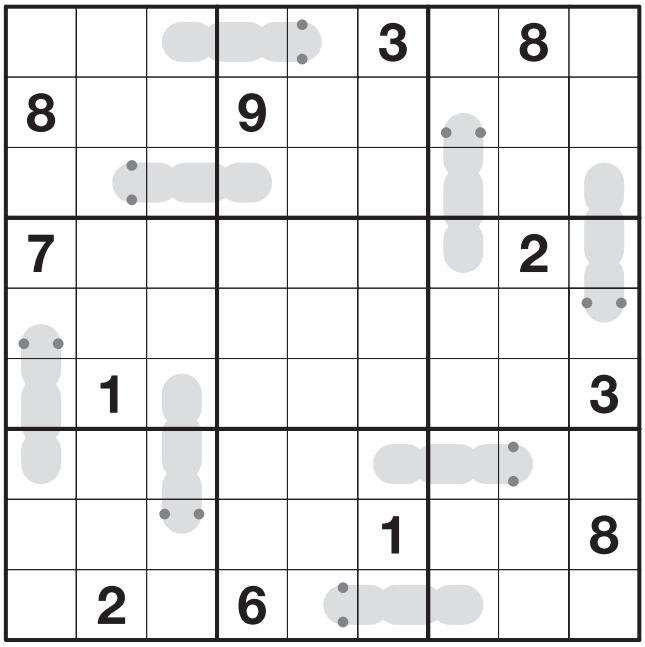
>> [Headless] Worm Sudoku

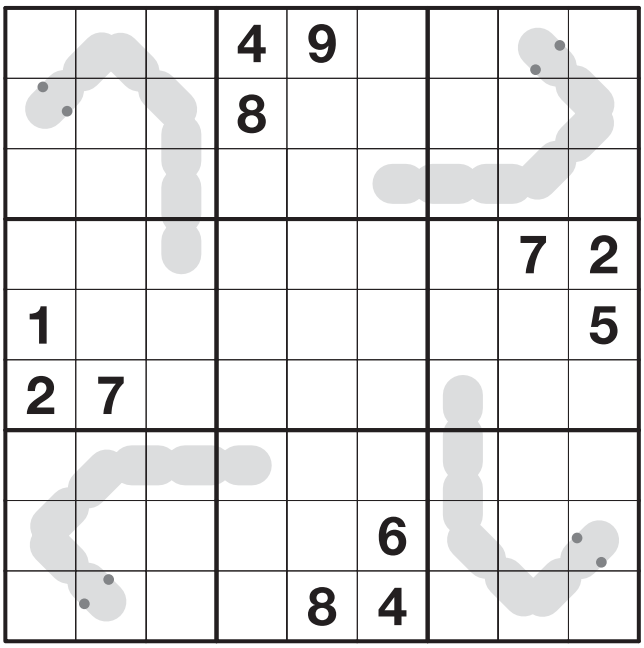
Place 1-9 once each into every row, column and bold-lined 3×3 box.

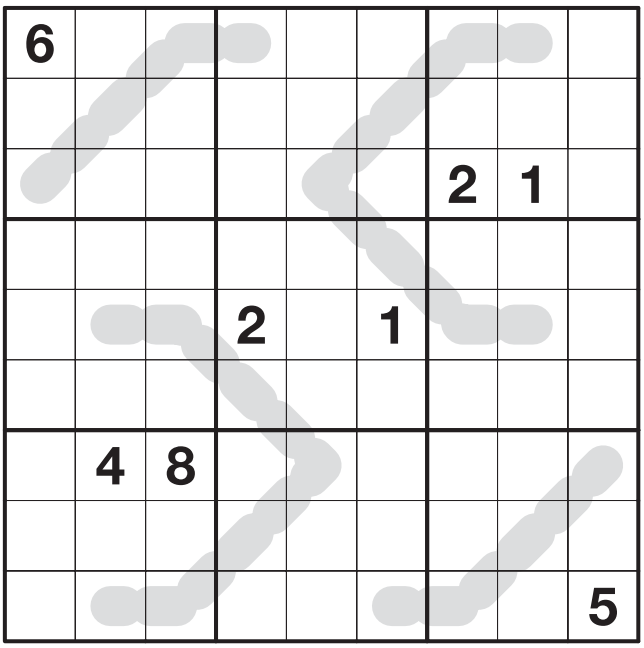
> The values of the digits along each worm must decrease by exactly 1 in each cell from the head (marked with eyes) to the tail. For example, 8765 is valid but 8754 is not.

> In the final puzzle the head of the worm is not given, and it is up to you deduce which end is which!









	12	3	20	3	10	24	
30	6	1	5	3	2	4	24
24	2	3	4	1	5	6	30
120	5	4	6	2	1	3	6
6	1	2	3	4	6	5	120
24	4	6	1	5	3	2	30
30	3	5	2	6	4	1	24
	12	30	2	30	12	2	

>> Product Frame Sudoku

Place 1-6 or 1-9 once each into every row, column and bold-lined 3×2 or 3×3 box.

> Values outside the grid reveal the product of the cells up until the first bold line in the adjacent row or column.

	6	6	20	12	6	10	
90					1		8
8	1						90
90							8
8							90
48						1	15
15		5					48
	6	20	6	10	12	6	

	24	15	2	30	2	12	
36							20
20							36
40							18
18							40
40							18
18							40
	2	24	15	4	15	12	

	30	72	168	12	189	160	48	168	45	
144										70
14										288
180										18
252										6
16										270
90										224
126										36
40										42
72										240
	504	120	6	96	30	126	35	108	96	

	30	48	252	120	72	42	18	72	280	
192										14
18										60
105										432
192										18
70										144
27										140
6										270
280										12
216										112
	144	28	90	216	70	24	252	120	12	

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

>> Offset Sudoku

Place 1-9 once each into every row, column, bold-lined 3×3 box and offset region

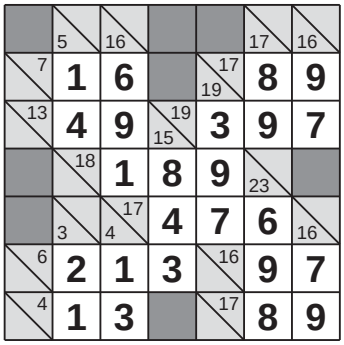
> There are nine offset regions, each one consisting of the set of nine cells that are in the same relative position in a 3×3 box. So, for example, the nine cells each in the top-left position of a 3×3 box together form one offset region, and the nine cells each in the centre of a box form another.

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

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

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

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

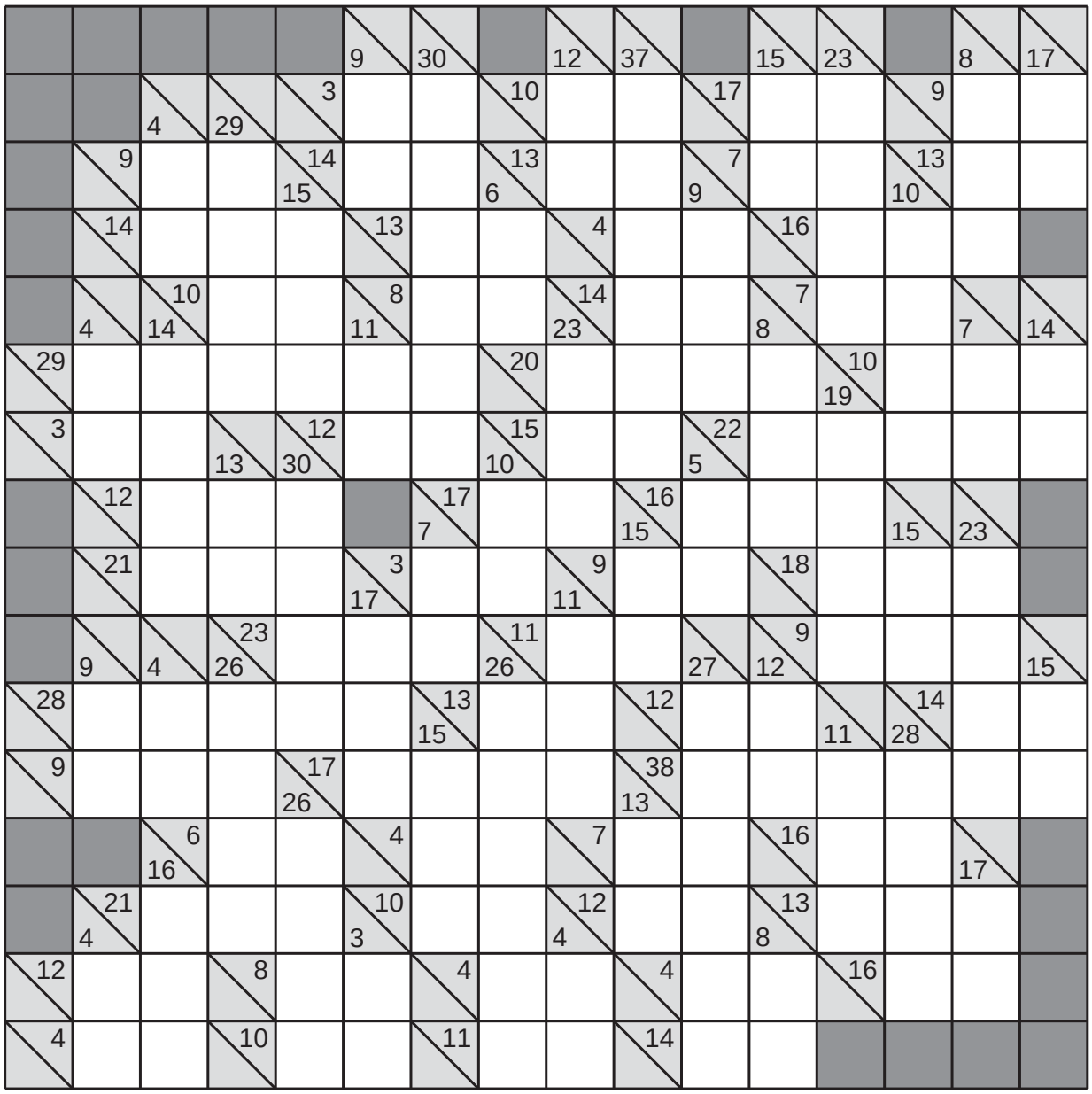


>> Kakuro

Place a digit from 1 to 9 into each white cell to solve the clues.

> Each horizontal run of white cells adds up to the total above the diagonal line to the left of the run, and each vertical run of white cells adds up to the total below the diagonal line above the run.

> No digit can be used more than once in any run.

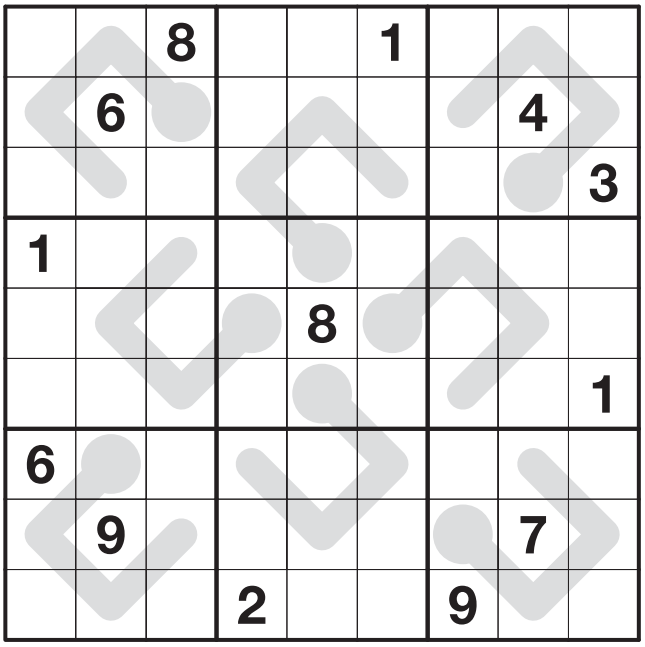


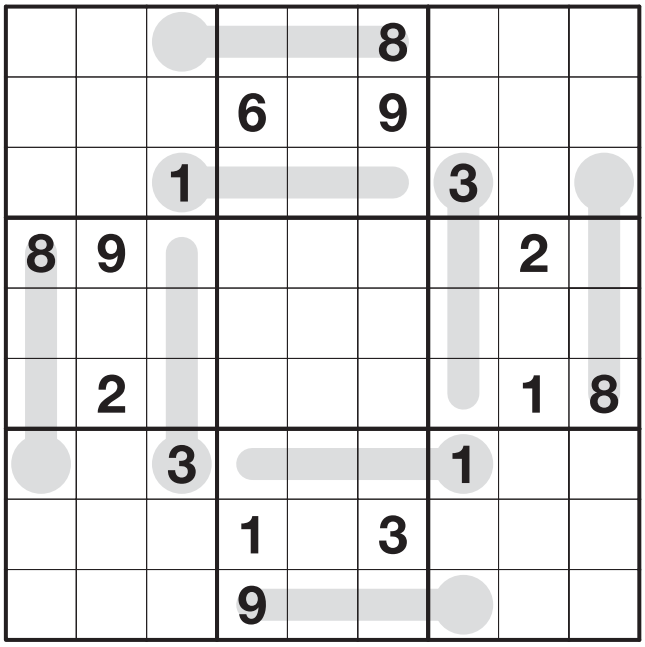
1	3	2	4	8	5	7	6	9
4	7	8	1	6	9	3	2	5
5	6	9	3	2	7	1	8	4
9	2	6	7	4	3	5	1	8
7	5	3	8	1	6	4	9	2
8	1	4	5	9	2	6	7	3
2	8	1	6	3	4	9	5	7
3	9	7	2	5	1	8	4	6
6	4	5	9	7	8	2	3	1

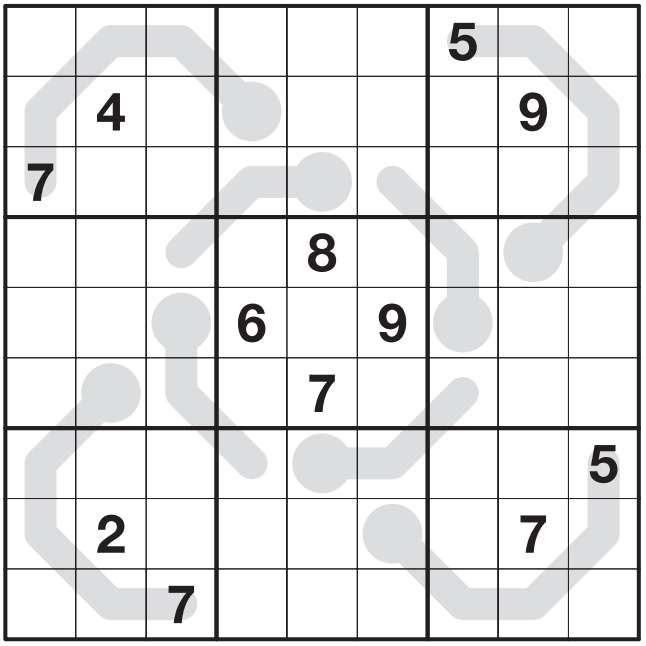
>> Thermometer Sudoku

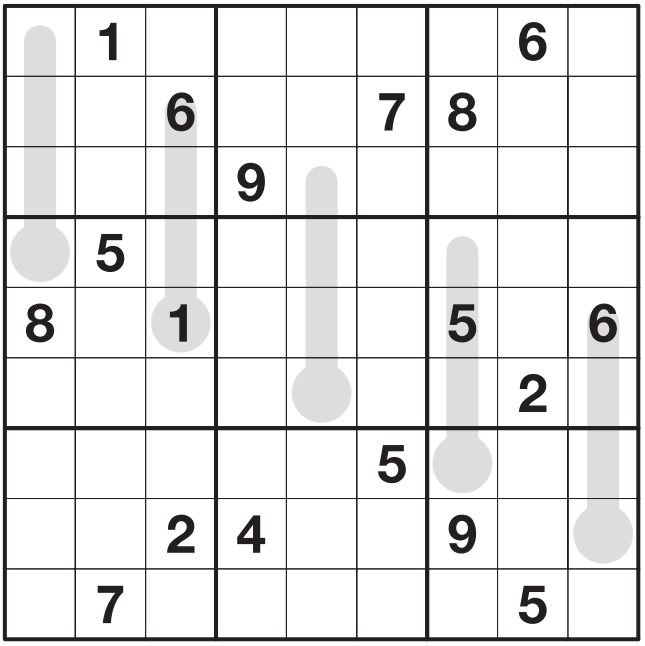
Place 1-9 once each into every row, column and bold-lined 3×3 box.

> The value of the digits along each shaded thermometer must increase cell by cell from the bulb (lowest value) to the head (highest value). This also means that digits cannot be repeated in a thermometer.









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

>> Non-consecutive Diagonal Sudoku

Place 1-9 once each into every row, column and bold-lined 3×3 box.

> No two diagonally-adjacent cells may contain consecutive numbers, such as 1&2 or 5&6. (Horizontally or vertically adjacent cells **can** contain consecutive numbers).

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

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

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

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

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

>> Sudoku X

Place 1-9 once each into every row, column, marked diagonal and bold-lined 3×3 box.

For more Sudoku variants check out my puzzle blog at **www.garethmoore.co.uk**

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

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

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

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

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

4				1		4			
				2		4			
3									
				3		4			
	3			4		4			
1					6				5

		4							
	2		3						
							3		
								9	
							4		
								5	
	6		2						
		8							

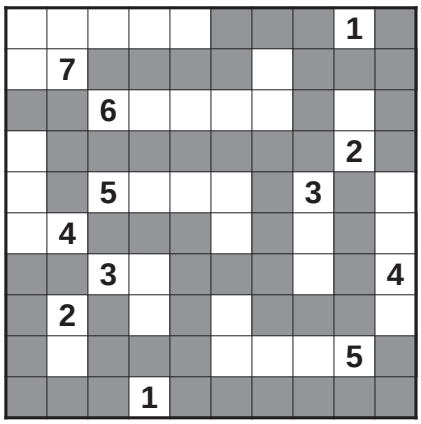
>> Nurikabe

Shade in cells so that every number in the puzzle remains as part of a continuous unshaded area of precisely the given number of cells.

> There can be only one number per unshaded area.

> Shaded cells cannot form any solid 2x2 (or larger) areas.

> All the shaded cells must form one continuous area.



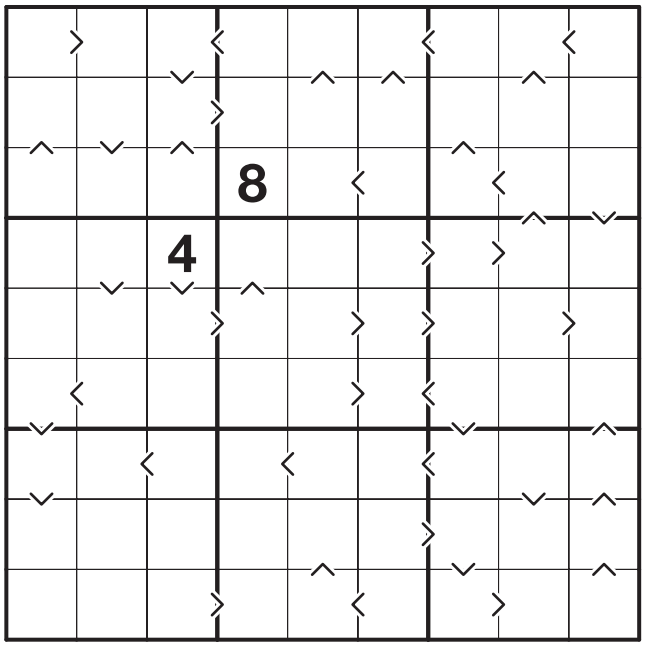
Check out the discussion forums at **www.SudokuXtra.com/forum** to chat about these and other puzzles with fellow readers!

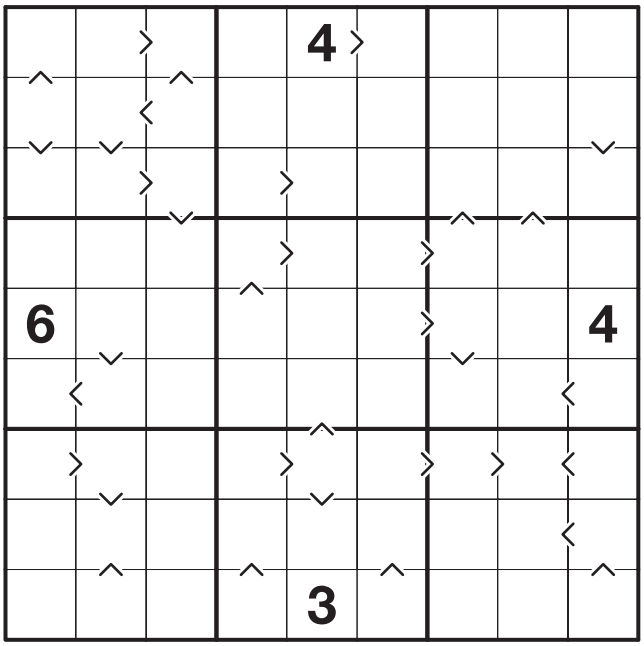
2	8	7	3	6	1	9	4	5
3	5	4	2	9	7	6	8	1
6	9	1	4	5	8	7	2	3
4	1	5	8	3	6	2	9	7
7	2	8	9	4	5	3	1	6
9	6	3	1	7	2	4	5	8
5	3	9	7	1	4	8	6	2
8	4	6	5	2	3	1	7	9
1	7	2	6	8	9	5	3	4

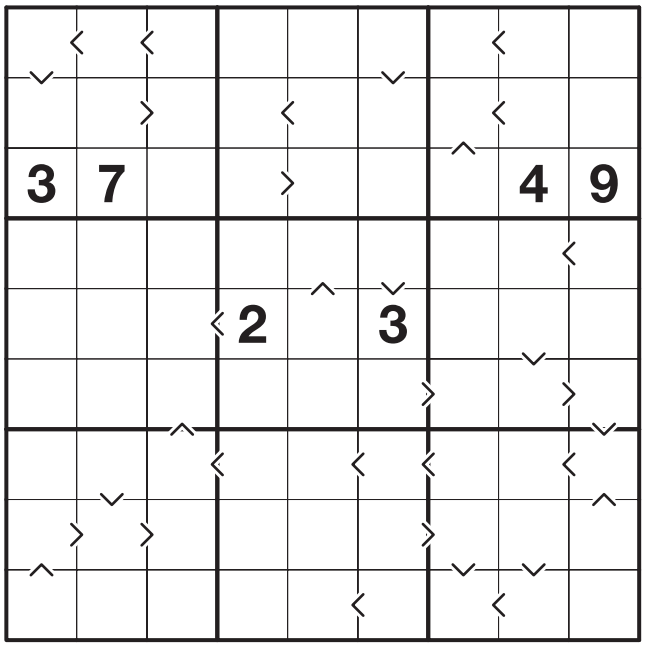
>> Sudoku Inequality

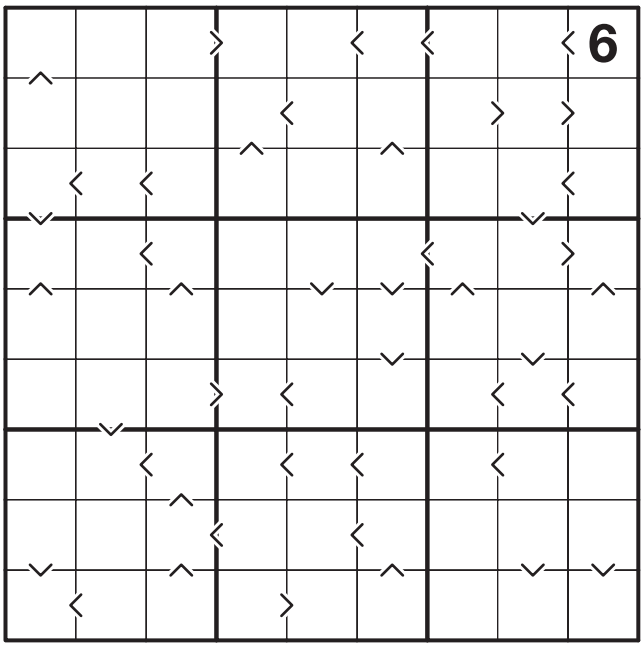
Place 1 to 9 into each row, and column and bold-lined region while obeying the inequality signs.

> Less than ("<") and greater than (">") signs between some cells indicate that the values in these two cells must be greater than or less than one another as indicated by the sign. The sign always points towards the smaller number.







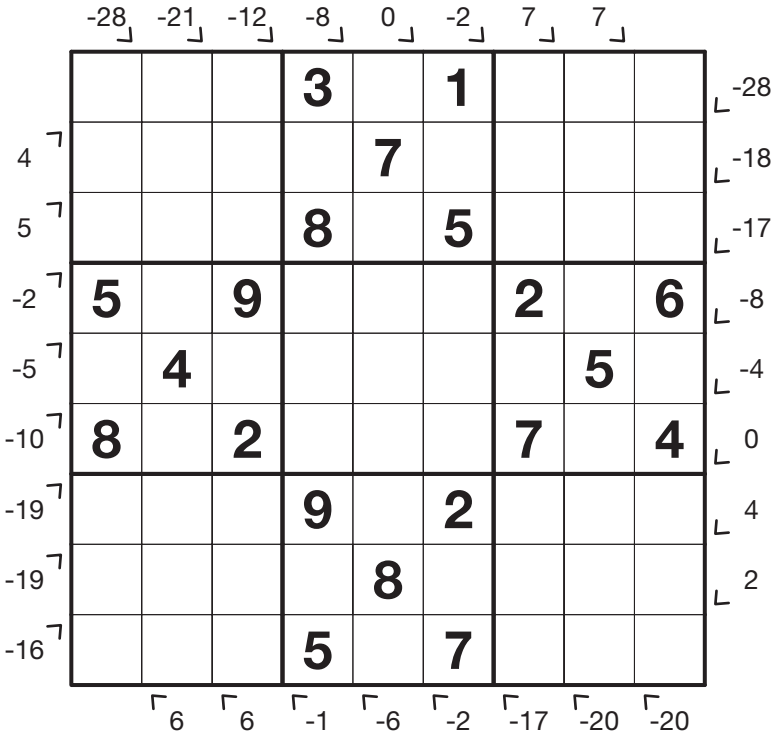


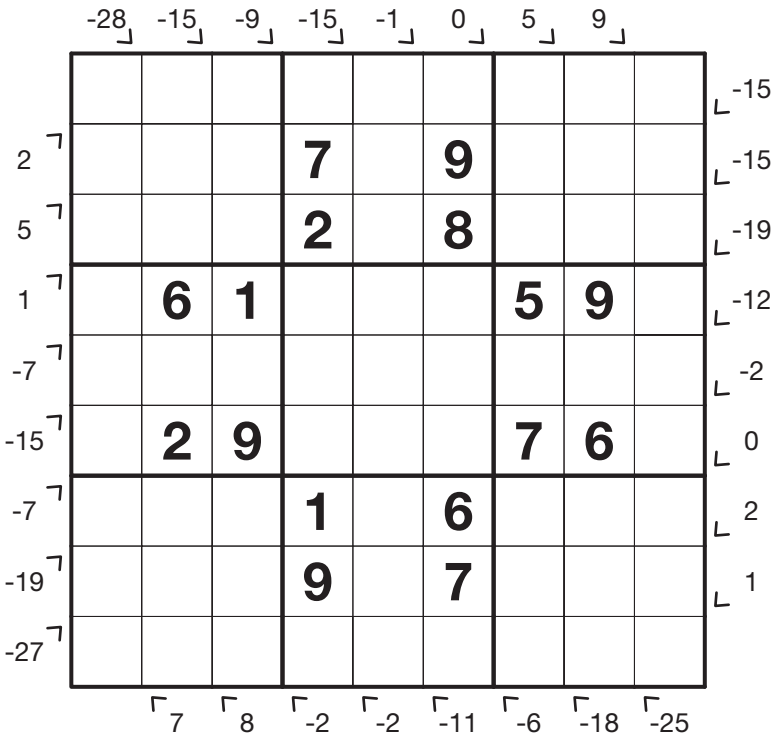
>> Minus Little Killer

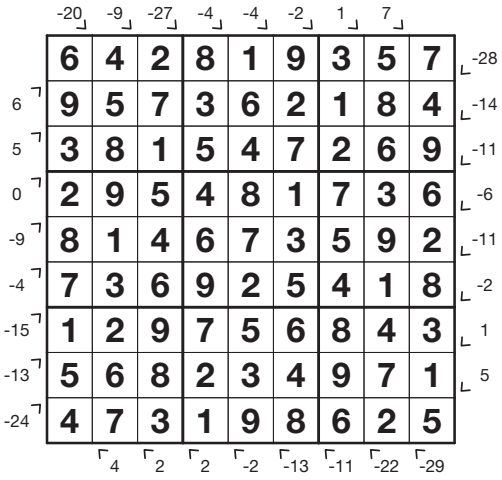
Place 1-9 once each into every row, column and bold-lined 3×3 box.

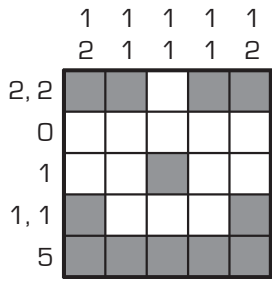
> The result of a subtraction operation on some diagonals is given, with an arrow pointing to the diagonal the sum applies to. This operation is defined as the highest number in the diagonal minus all of the other numbers. If the highest number repeats, just pick one as the highest and subtract the other(s).

> Note that numbers **are** allowed to repeat in a diagonal sum, subject to the usual rules of Sudoku.









>> Hanjie

Shade in cells in the grid to reveal a picture while obeying the clue constraints at the start of each row or column.

> Numbers outside provide, in order, the length of every run of consecutive shaded cells in each row or column.

> There must be a gap of at least one empty cell between each run of shaded cells in the same row or column.

Clue:
Black and white pieces

	5	9	16	13 1 1	7 3 1	2 1 1	7 2 1	6 2 1	1 7 1	1 12 1	7 7 1	1 12 1	1 7 2 1	6 2 1 1	7 2 1 2	2 1 1 3	7 2 1 1 1	7 3 1 2 1	13 1 1 4 1	8 2 3 1	6 4 1 1	4 1 1 1	1 1 4 1	2 2 3 1	5 4 1	2 2 1	1 1	3	2	2
1																													
1																													
5																													
1																													
2, 1, 2																													
6, 1, 6																													
17																													
9, 9																													
9, 9																													
10, 10																													
10, 10																													
5, 5, 5																													
4, 3, 7																													
4, 3, 2, 2																													
3, 3, 1, 1																													
4, 3, 2, 2																													
16, 2																													
17, 2																													
1, 2, 2																													
2, 1, 1, 1, 1, 1, 1, 1, 4																													
1, 1, 1																													
18, 2																													
1, 1																													
2, 2																													
1, 1																													
1, 1																													
2, 2																													
3, 3																													
3, 3																													
18																													

>> Feedback

If there are certain puzzles you'd like to see - or even not see! - in a future issue of Sudoku Xtra then why not send me an email and let me know? Just write to **Gareth@SudokuXtra.com**. Alternatively head on over to the Sudoku Xtra discussion forums at **www.SudokuXtra.com/forum** and join in the puzzle discussion. For example if you're stuck on a puzzle, why not ask for help? There are also announcements posted periodically giving details of future issues or related content, such as the Sudoku Xtra Specials books of particular Sudoku variants.

>> Getting hold of Sudoku Xtra

Issue 22 will be available in December 2012, but if you don't already have all twenty one issues of Sudoku Xtra then there's no need to wait for more - just head over to **www.SudokuXtra.com** and you can get hold of the previous issues too!

Each issue is available online for immediate download, or you can obtain a pre-printed copy from Amazon (with free super-saver shipping, if eligible).

>> Xtra Calcudoku

Place 1 to 8 once each into every row and column.

> **Mystery Calcudoku** cages are given, where as usual there is **no restriction on repeating a number within a cage** but the given value must result when one of the four operations +, -, × or ÷ is applied between all the numbers in that cage. For subtraction and division start with the highest value in the cage and subtract/divide by the rest.

> Some cages have no clue.

6 1	6	28 7	3	4	3 5	10 8	2
15 5	3	4	1	8	2	13 7	144 6
2 8	16 2	140 5	7	1	4	6	3
6	1	3	2 4	35 5	7	2	8
84 3	4	6	2	7	8	5	7 1
4	13 8	60 1	5	2	6	3	7
7	5	6 2	48 8	9 6	3	1	4
14 2	7	8	6	3	1	9 4	5

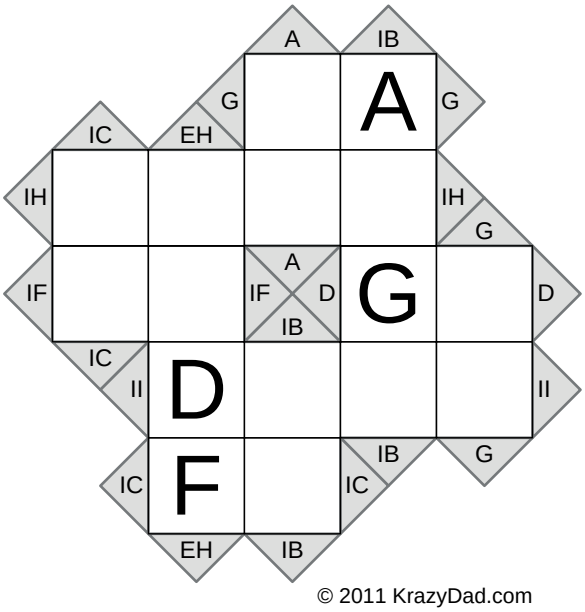
24	14			12			
			17			10	
		12	105				
2				42			
30	12					28	
						4	
56		40					
11		20					

>> Krypto Kakuro

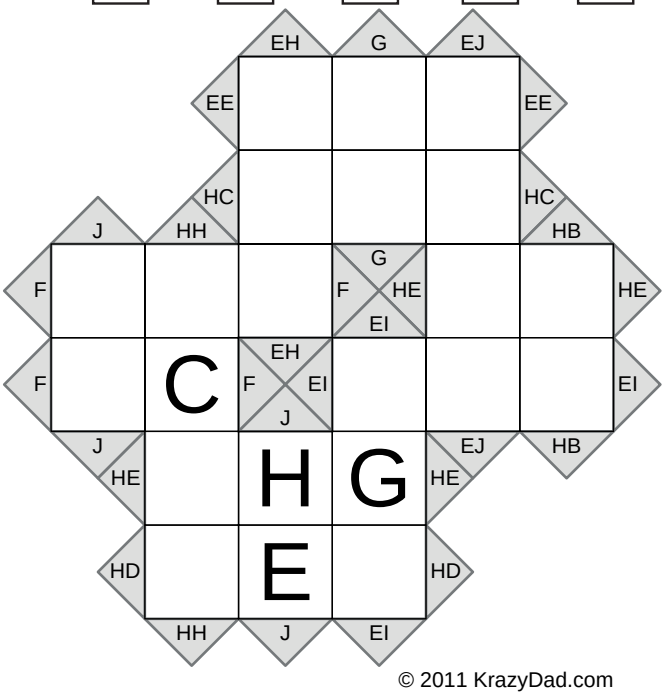
Krypto Kakuro puzzles are a cross between a crossword, a sudoku and a cryptogram.

> Each digit has been substituted with a letter. To solve the puzzle, you must figure out what digit each letter stands for, and then solve it like a regular kakuro puzzle.

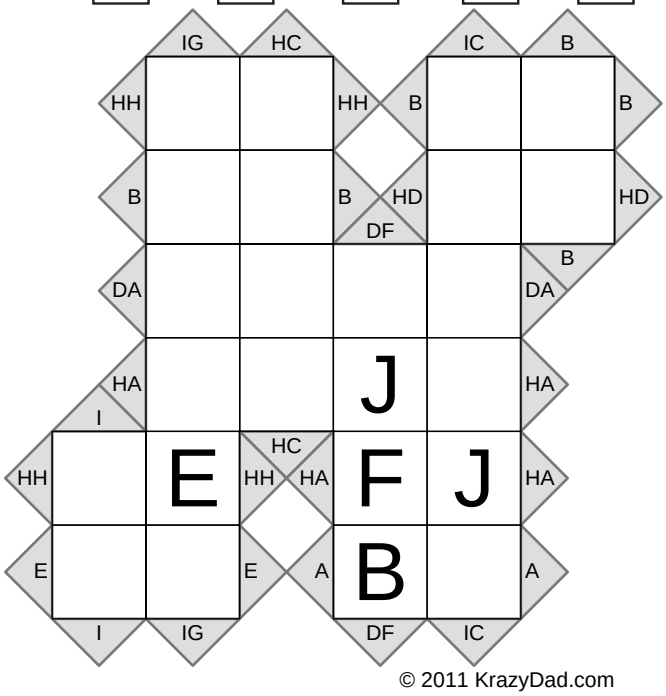
> Each "word" in the crossword contains only the digits 1 thru 9, and the same digit will never repeat within a word. The sum of the digits of each word are shown on the left and right sides of "across" words, and at the tops and bottoms of "down" words.



A B C D E
F G H I J



A B C D E
F G H I J



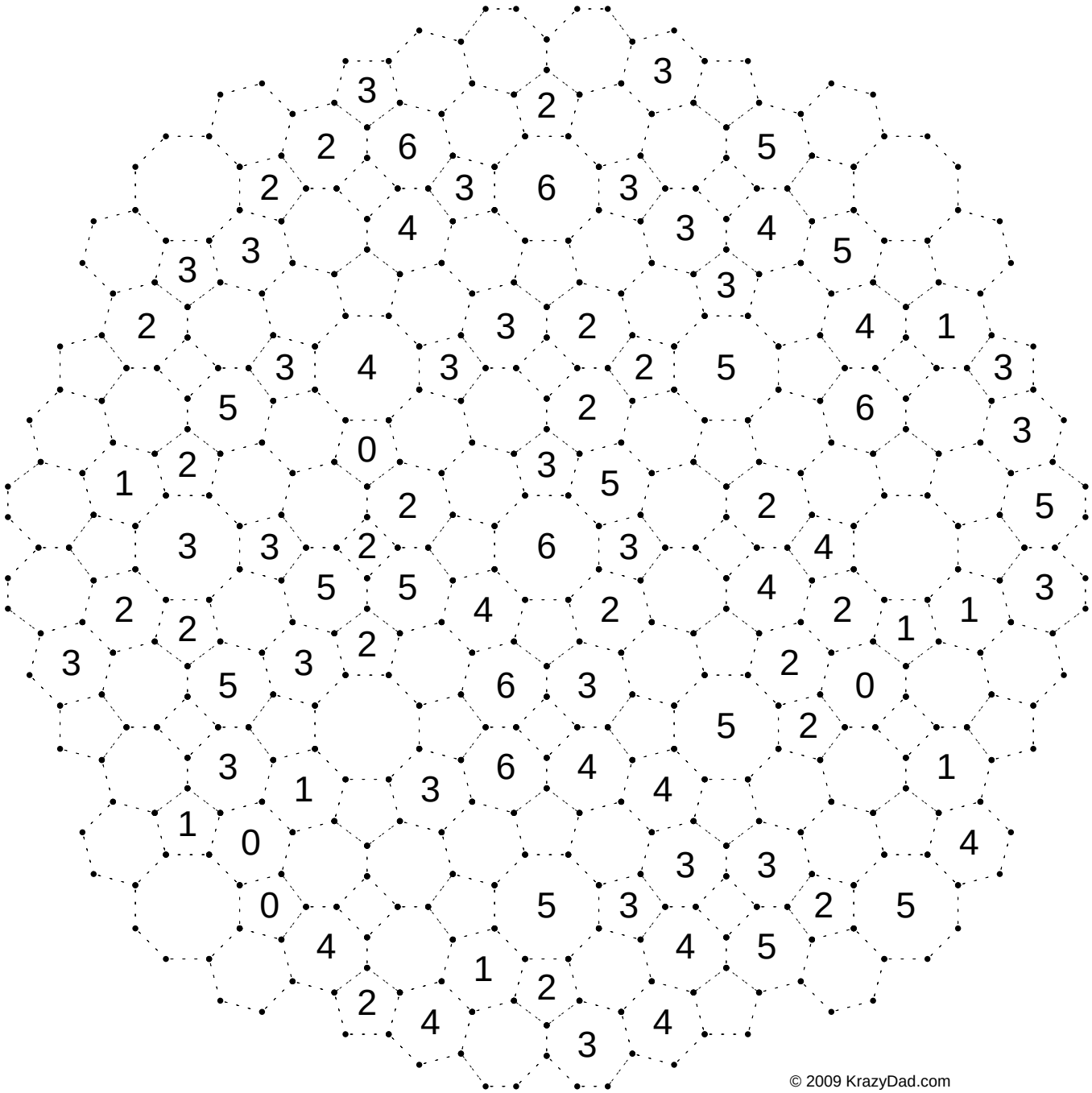
>> Altair Slitherlink

Fill in some of the dotted line segments to form a meandering path that forms a single loop.

> The path does not cross itself, branch, or touch itself at corners. The numbers indicate how many line segments surround each cell. Empty cells may be surrounded by any number of line segments.

This tiling is from a traditional Islamic design and appears in the books "Altair Design" by E. Holiday and "Arabic Geometrical Pattern and Design" by J. Bourgoin.

Need some solving help? Visit **krazydad.com/slitherlink**



			1					5
				4				
5							4	
				1				2
		4				1		
6				5				
	6							3
				2				
4					1			

6				4				
			6				5	
		2			1			
3								
	2						3	
								6
			4			2		
	6				5			
				1				4

>> Top Heavy Sudoku

Place 1-6 into some empty cells so that each digit appears exactly once in each row, column and bold-lined 3×3 box.

> Wherever two vertically adjacent cells are both occupied by digits, the top digit must always be greater than the bottom digit.

> There will be 3 empty cells in each row, column and 3×3 box.

2	3			1	4	6	5	
		5	6		3	2	4	1
1	6	4		5	2		3	
	4	1	5			3	2	6
6	2		4	3		1		5
5		3	1	2	6			4
4		2			1	5	6	3
	5		3	6		4	1	2
3	1	6	2	4	5			

>> Solutions for pages 1 to 5

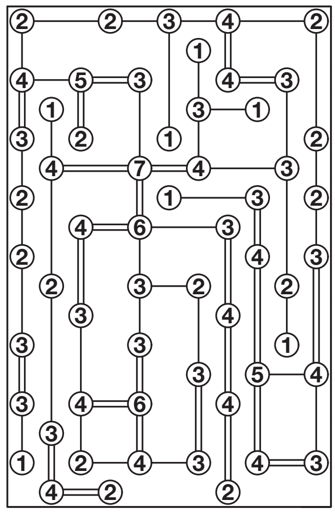
8	9	5	6	4	1	2	7	3
3	6	7	5	9	2	4	8	1
2	4	1	8	3	7	9	6	5
5	2	8	7	1	6	3	9	4
9	7	3	2	8	4	5	1	6
6	1	4	9	5	3	8	2	7
4	5	2	1	6	9	7	3	8
7	8	6	3	2	5	1	4	9
1	3	9	4	7	8	6	5	2

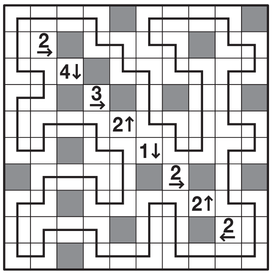
3	2	5	7	4	6	1	8	9
8	7	9	2	3	1	6	4	5
6	1	4	5	8	9	7	2	3
5	6	1	8	2	3	9	7	4
9	3	2	1	7	4	8	5	6
4	8	7	6	9	5	3	1	2
2	4	6	3	1	8	5	9	7
7	5	8	9	6	2	4	3	1
1	9	3	4	5	7	2	6	8

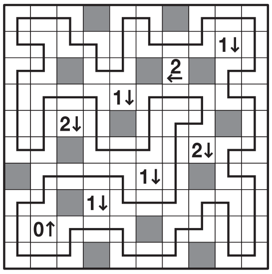
7	3	8	5	9	1	2	4	6
1	4	9	3	2	6	7	5	8
6	5	2	4	8	7	1	9	3
4	8	6	7	1	5	9	3	2
5	2	7	9	6	3	8	1	4
3	9	1	2	4	8	6	7	5
8	7	4	6	3	9	5	2	1
9	1	3	8	5	2	4	6	7
2	6	5	1	7	4	3	8	9

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

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







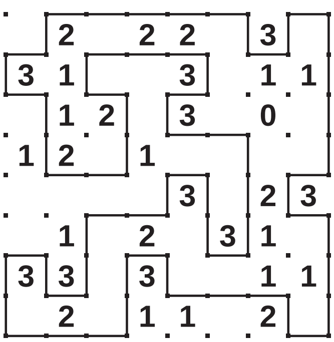
24× 4	2	15× 3	5	12+ 6	1
3	4− 6	2	7+ 4	1− 1	5
5÷ 1	20× 4	5	3	2	4− 6
5	15× 3	6÷ 6	4÷ 1	4	2
3÷ 2	5	1	3− 6	3	12+ 4
6	1	2− 4	2	5	3

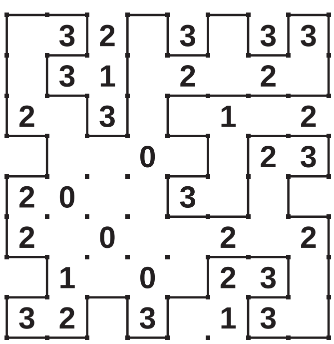
1− 2	8+ 3	5	12+ 4	5− 1	6
1	10× 5	2	6	10+ 4	3
11+ 6	2	3× 1	3− 5	3	4× 4
5	16× 4	3	2	8+ 6	1
4	1	72× 6	3	2	7+ 5
3− 3	6	4	6+ 1	5	2

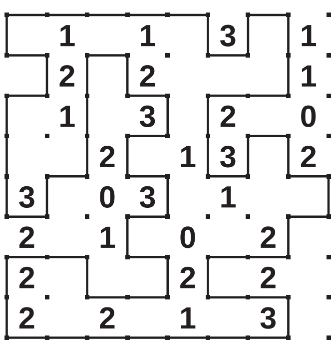
75× 5	3	6+ 4	2− 1	2	6
2÷ 3	5	2	96× 6	4	1
6	8× 2	1	4	13+ 5	3
4	1	120× 6	2	3	3− 5
36× 1	4	5	15× 3	24× 6	2
2	6	3	5	1	4

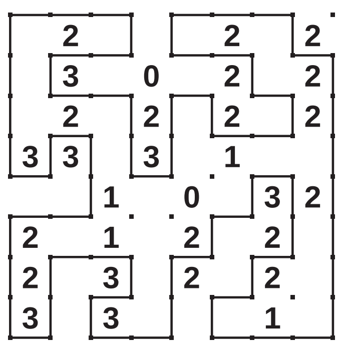
2− 6	8	7+ 3	4	5+ 2	35× 7	10+ 5	1
16× 2	1	8	14+ 6	3	5	1− 7	4
7+ 4	3	1	8	448× 7	2	6	315× 5
16+ 1	60× 6	5	2	8	4	3	7
8	4	23+ 7	5	12× 1	6	2	3
3	14× 2	4	7	9+ 5	16× 1	14+ 8	6
175× 5	7	3÷ 6	4+ 3	4	8	1	2
7	5	2	1	3− 6	3	4− 4	8

10+ 3	7	40× 5	8	6× 2	24× 1	3− 4	30× 6
5+ 4	1	8+ 2	6	3	8	7	5
21+ 8	24× 4	6	35+ 2	1	3	3− 5	9+ 7
7	6	1− 3	1	4	30× 5	8	2
6× 1	8+ 5	4	7	8	6	24× 2	3
6	3	16+ 8	5	7	2× 2	1	4
7+ 2	16× 8	7	7+ 3	9+ 5	4	7+ 6	1
5	2	1	4	42× 6	7	5− 3	8









>> Solutions for pages 6 to 11

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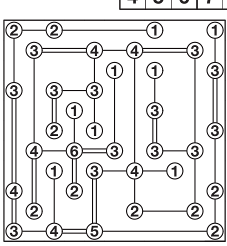

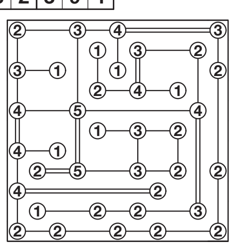

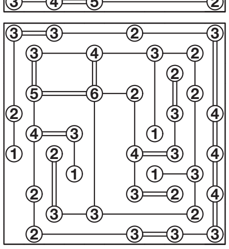

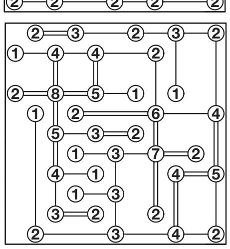

>> Solutions for pages 12 to 16

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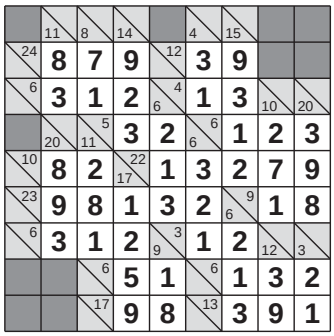

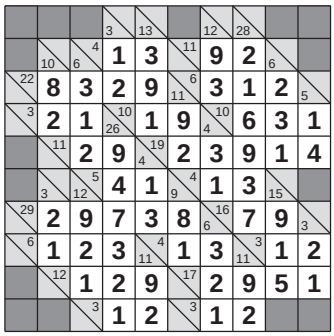

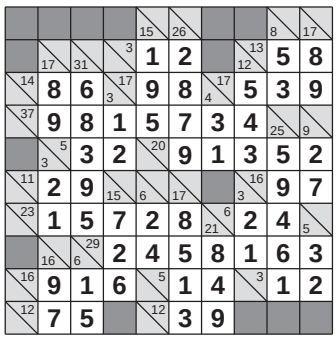

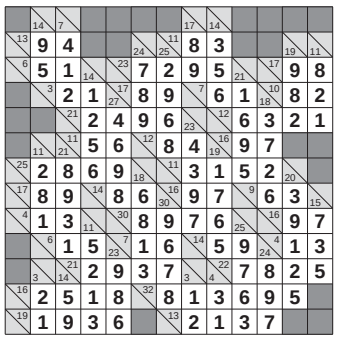

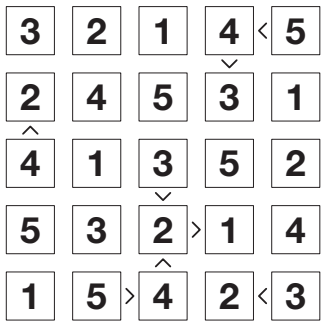

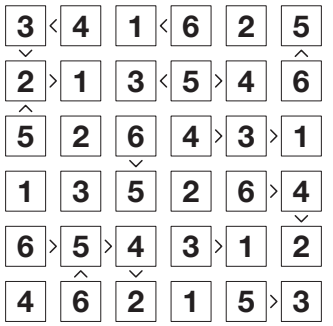

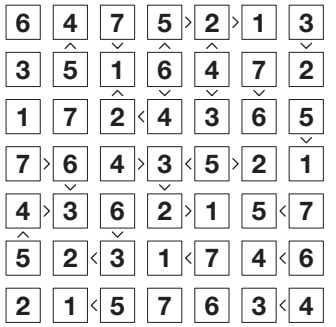

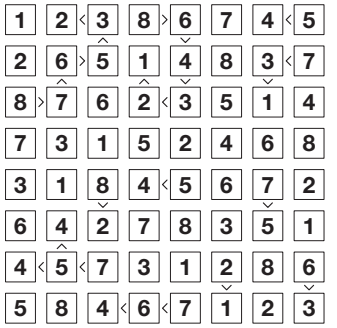

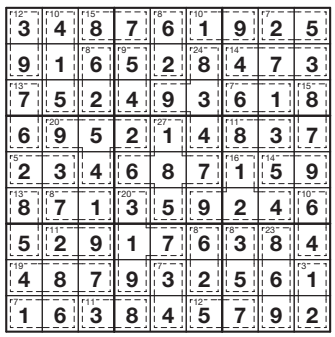

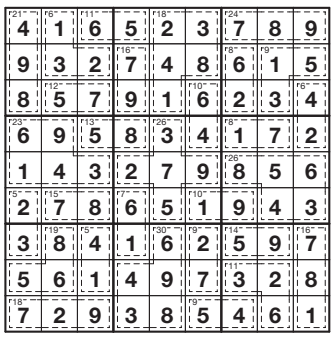

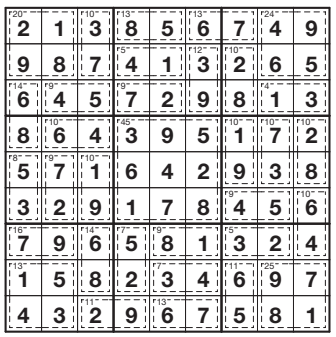

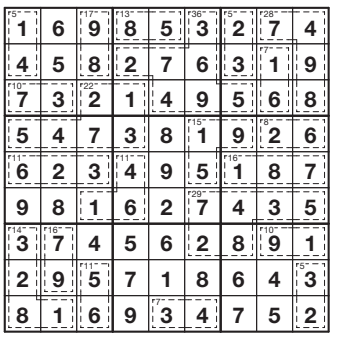

>> Solutions for pages 17 to 21

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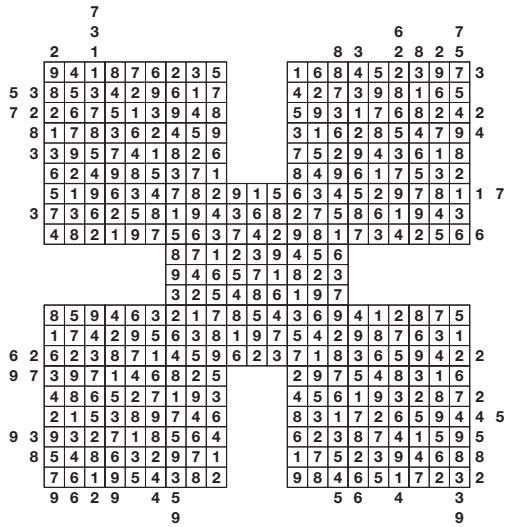

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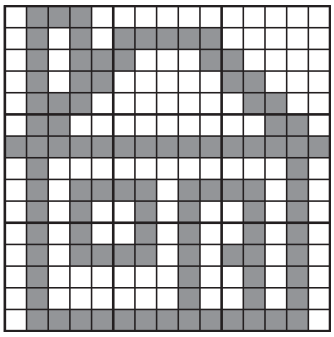

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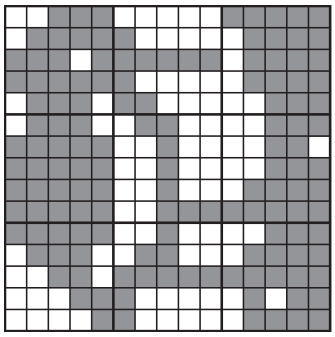

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Nurikabe
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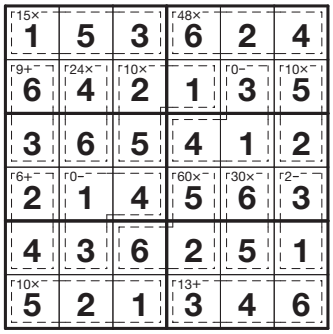

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>> Solutions for pages 27 to 31

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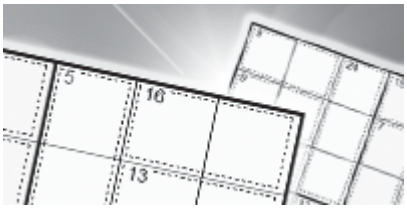

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>> Solutions for pages 31 (continued) to 35

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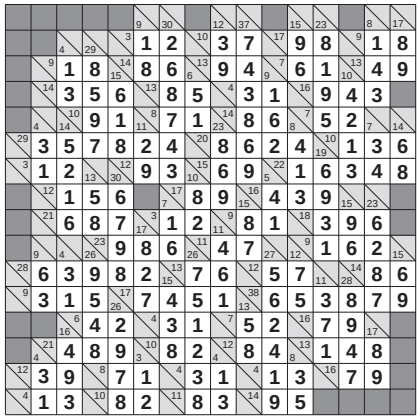

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>> Solutions for pages 36 to 40

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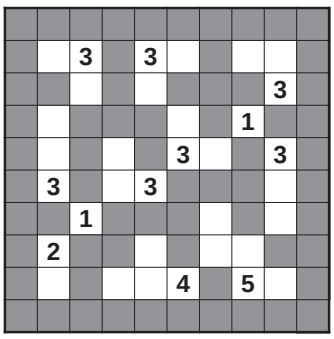

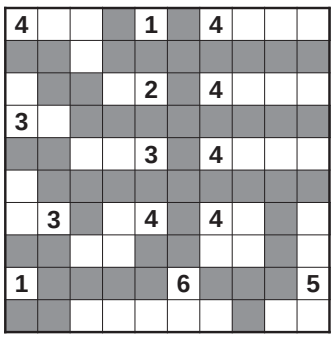

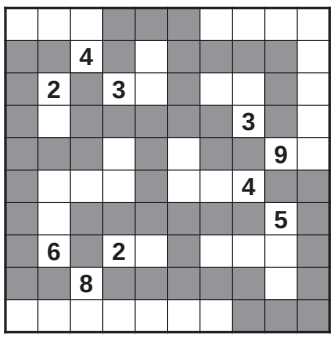

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>> Solutions for pages 41 to 46

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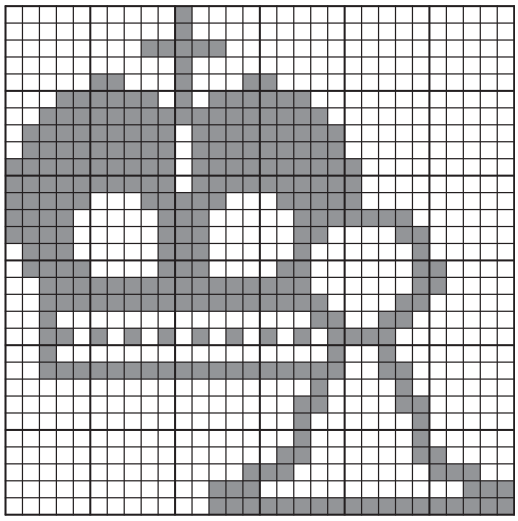

Chess pieces

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3	6	12 1	105 7	8	5	4	2
2 1	2	3	5	42 7	4	6	8
30 6	12 5	8	3	1	2	28 7	4
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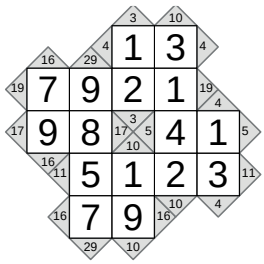
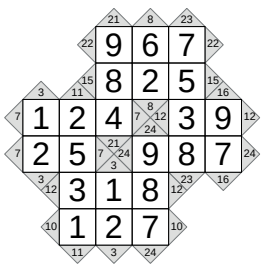
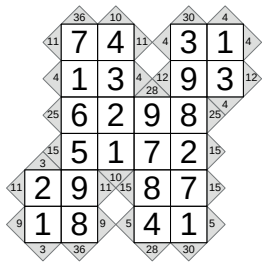
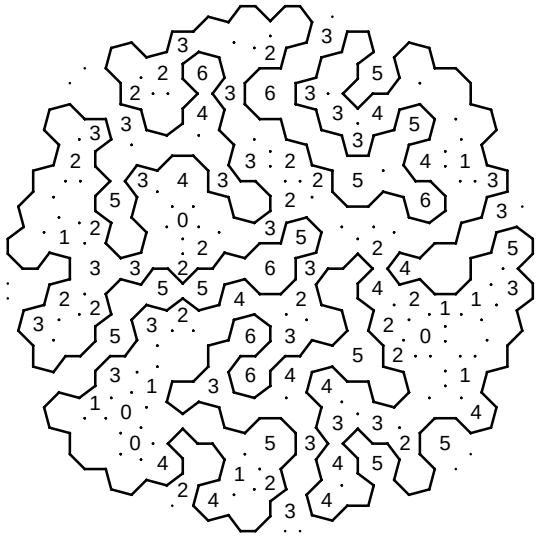
11 8	3	20 5	4	2	6	1	7









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3		5		1	4	6		2
	2	4	6		3	1	5	
6		1		5	2		3	4
1	6		5			4	2	3
	5	3	4	2	6		1	
4		2	3		1	5		6

6		5		4	3	1		2
1	3	4	6		2		5	
		2	5		1	6	4	3
3	4		2	6		5		1
	2	6	1	5	4		3	
5	1			3		4	2	6
		3	4		6	2	1	5
4	6	1	3	2	5			
2	5			1		3	6	4

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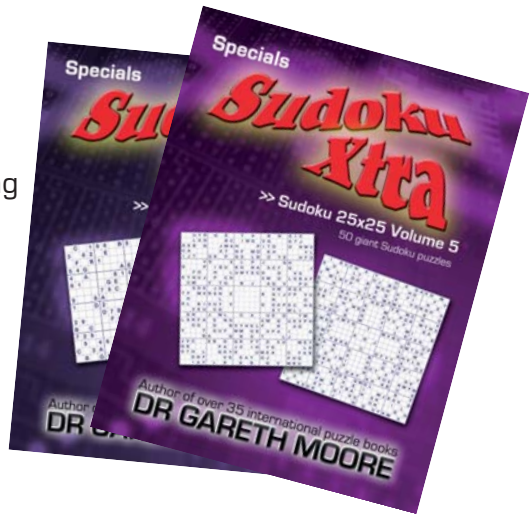

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