

Sudoku Xtra™

Issue 16 - August 2011

>> The Logic Puzzle Brain Workout

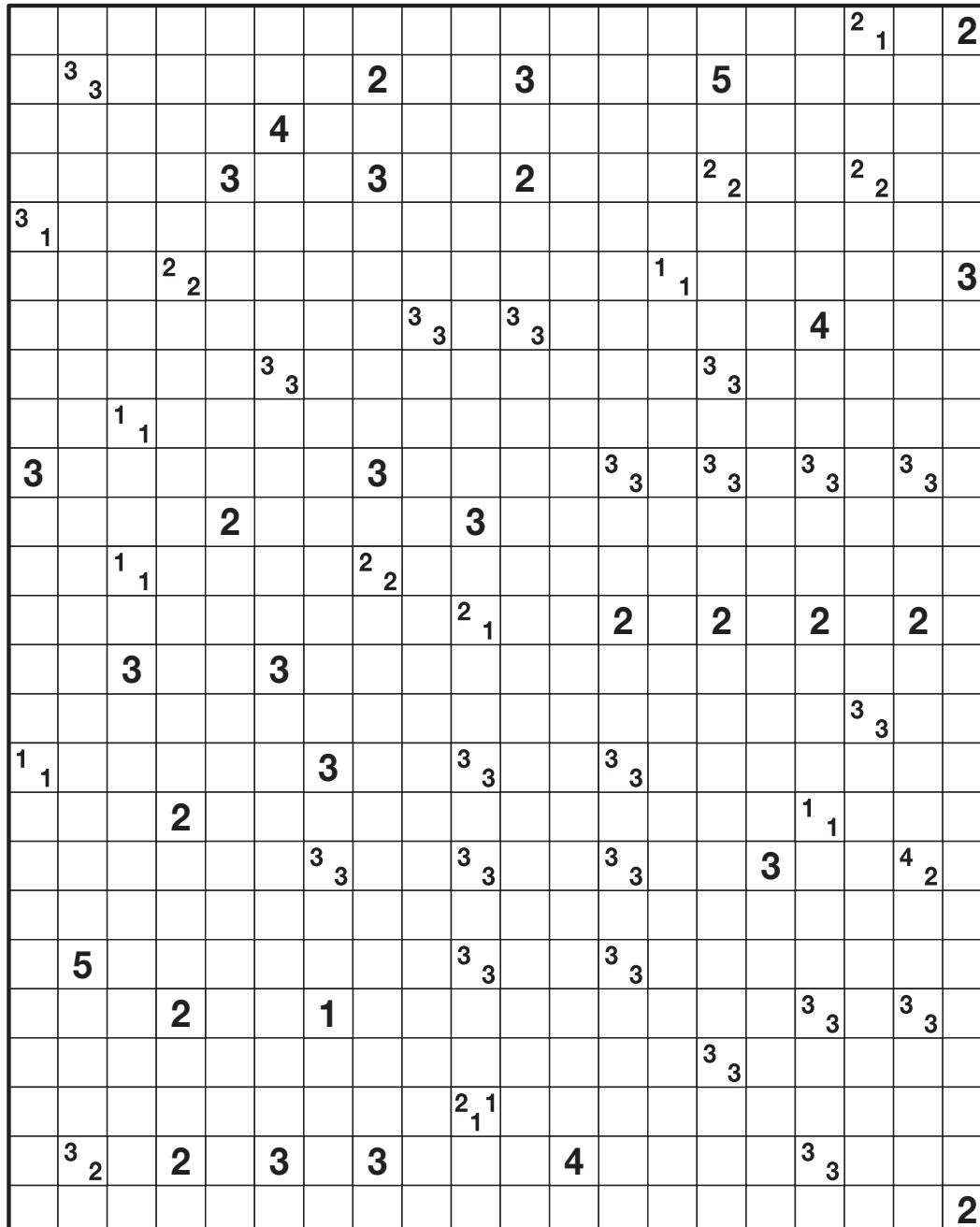
All main section puzzles by Dr Gareth Moore

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WARNING:
Overloaded with Puzzles!

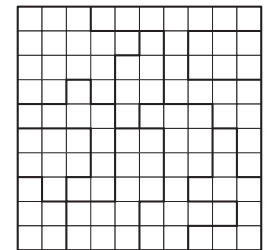
>> Tapa

Full instructions on page 2.

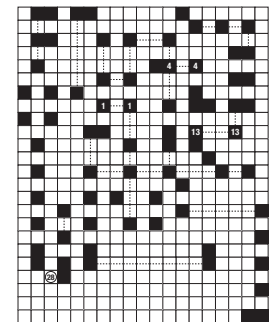


Also in issue 16:

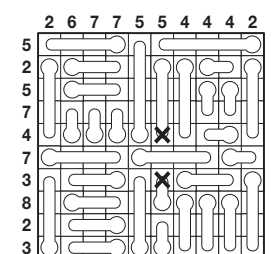
> Star Battle



> Suraromu



> Thermometers



2 Sudoku Xtra

Welcome to **Sudoku Xtra** issue 16, packed to bursting point with a ridiculous number of different puzzles - in fact there are a staggering 141 puzzles in this issue, consisting of over 60 different types of logical challenge! I've also made several full-page puzzles this month, from the giant cover Tapa through to giant Suraromu, Masyu, Hanjie and several more.

At the back of the mag (page 40) is an absolutely bumper **Community Puzzles** section, stacked to the gills with novel and fun puzzles from the cream of the world's puzzle authors. From shape-fitting puzzles to Battleships to a giant Heyawake, and from Labyrinth to LITS to No 4 In A Row and on, there is something here for everyone. As always, David and I would love to receive your submissions for this section. Also don't forget that you can get each issue delivered to your email inbox the instant it's available by subscribing to the download (PDF) version at **www.sudokuxtra.com**, where you can also join in the discussion forum and chat about the puzzles in this magazine and the ones you'd like to see in future issues too!

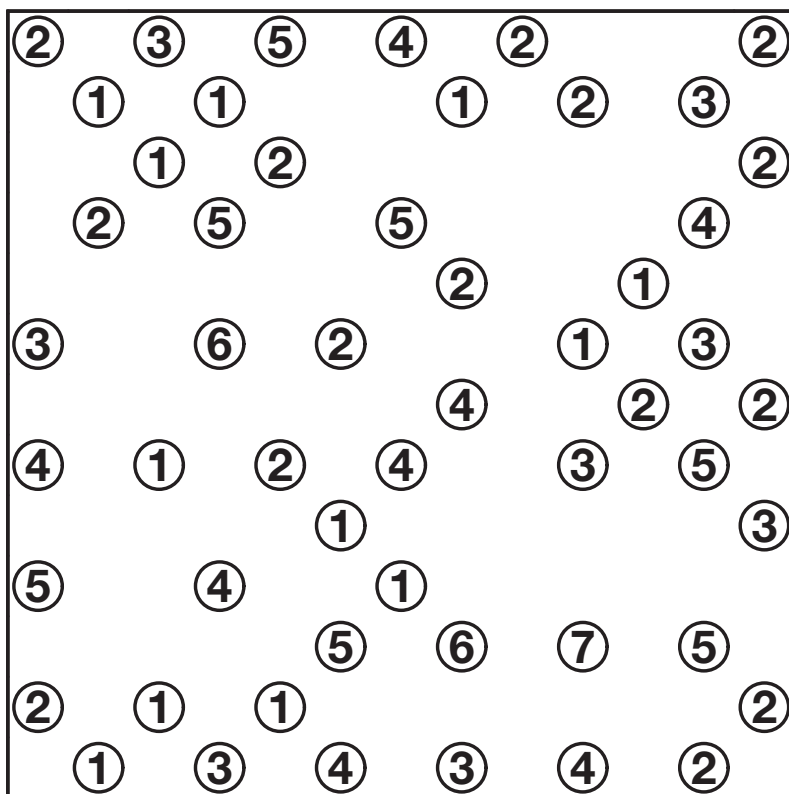
Dr Gareth Moore
gareth@sudokuxtra.com

>> Tapa (Cover puzzle)

Shade some empty squares to create a continuous region that obeys the Tapa clues.

- > Tapa clues reveal the count of neighbouring shaded squares, including diagonals. Considering the 8 squares around the clue as a circular region, the numbers reveal the length of **all** shaded sets of squares in that region. If there are multiple numbers in a clue square then the different shaded sets of squares must have at least one white square between them. For example, "2 3" indicates 2 touching shaded squares and 3 touching shaded squares, but these shaded sets must have unshaded squares between them.
- > Tapa clues cannot themselves be shaded.
- > There can be no 2x2 (or larger) shaded regions.
- > All the shaded squares must form one continuous region (moving from square to square only left/right/up/down, **not** diagonally).

1	1			
				3
2				2



>> Hashi (right)

See page 11 for instructions.

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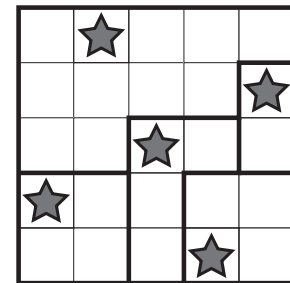
>> Star Battle

Place exactly 2 stars in each row, column and bold-lined shape.

- > No star can be in the square adjacent or diagonally-adjacent to any other star.

Example solution:

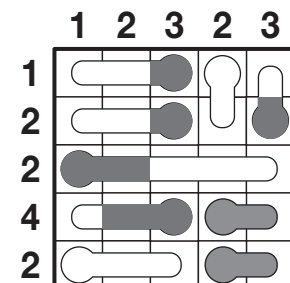
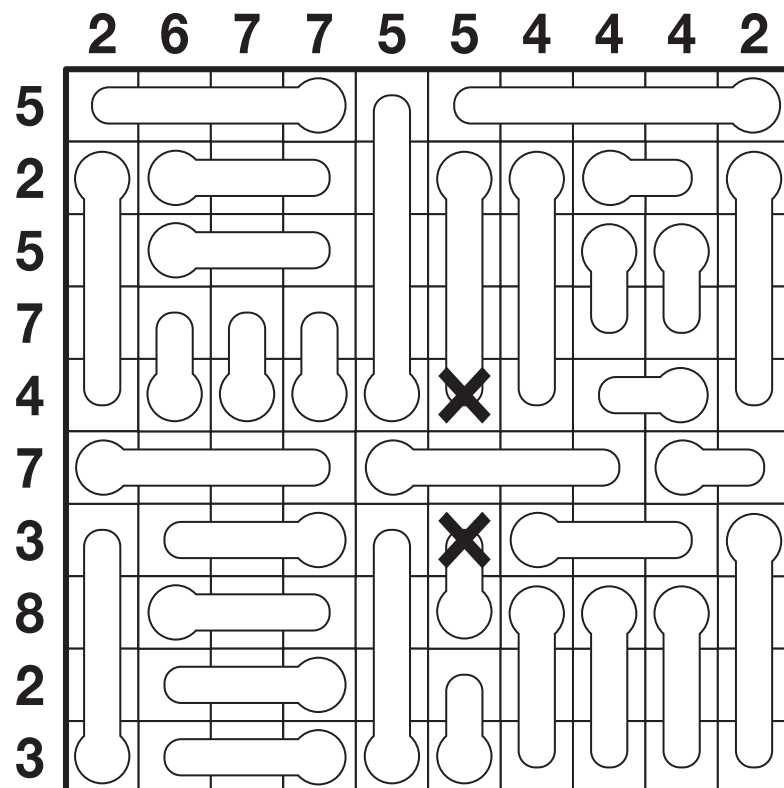
[1 star per row/column/shape]



>> Thermometers

Shade the given number of squares in each row or column, as indicated by the row-/column-end numbers.

- > No segment of a thermometer can be shaded unless all segments closer to the bulb, including the bulb itself, are already shaded.
- > Squares with an 'x' are not shaded.



4 Sudoku Xtra

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

>> Calcudoku

Place the numbers 1 to 6 (or 1 to 8) into each 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.

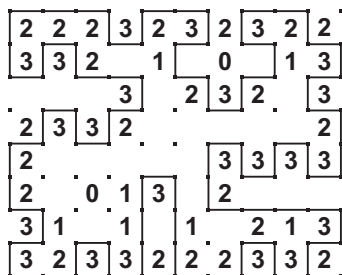
5+	9+		0-	1-	
	1-	3-		16+	
26+					
		0-	12×	3+	
					30×
4×			5+		

1-			0-	1-	10×
11+					
	18×	2-		4÷	1÷
		7+			
6+	9+	12×			
			13+		

2×		15+	5×	9+	
11+					11+
		6+	2÷		
150×				3-	
	6×	4-	9+		
				2-	

128×		0-		126×		42×	
	18+	15+					8×
				18+	10×	1-	
60×							3-
	2÷	14×	64×		14+		
28×						150×	
	6×		21+	10+			192×

13+	216×		9+		84×		
	7+			84×			1-
			3+	11+	0-		
5-	17+					32×	1-
		280×	18×	5÷			
9+					19+	20×	0-
	5-						
160×			9+				

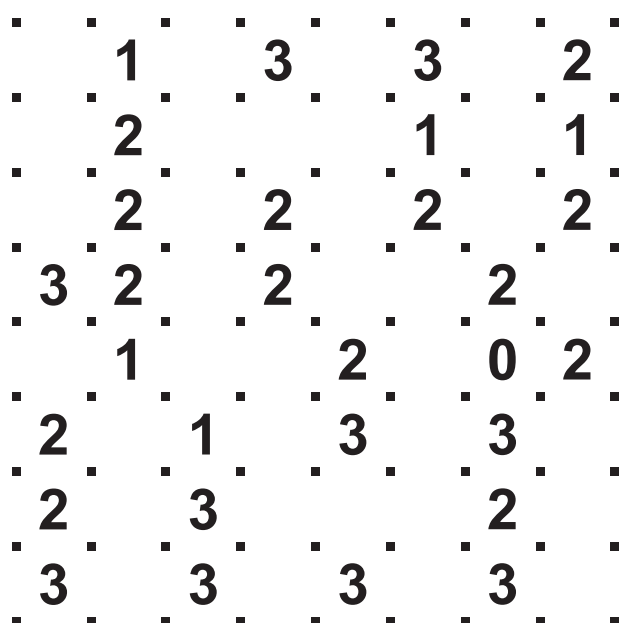
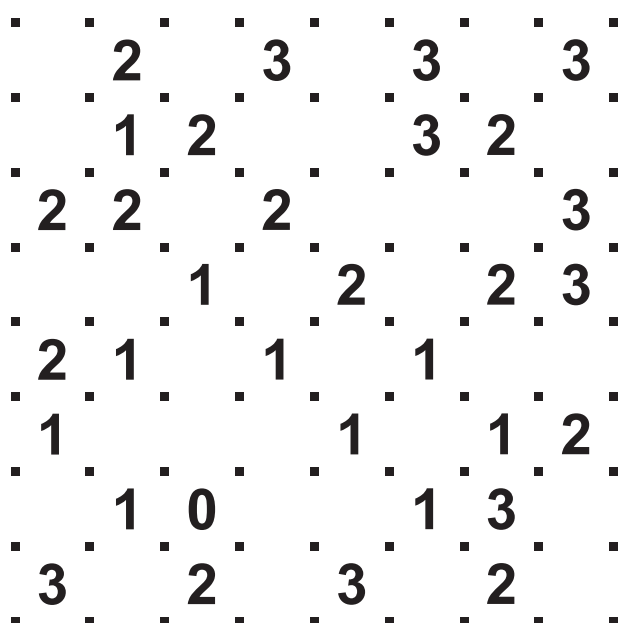
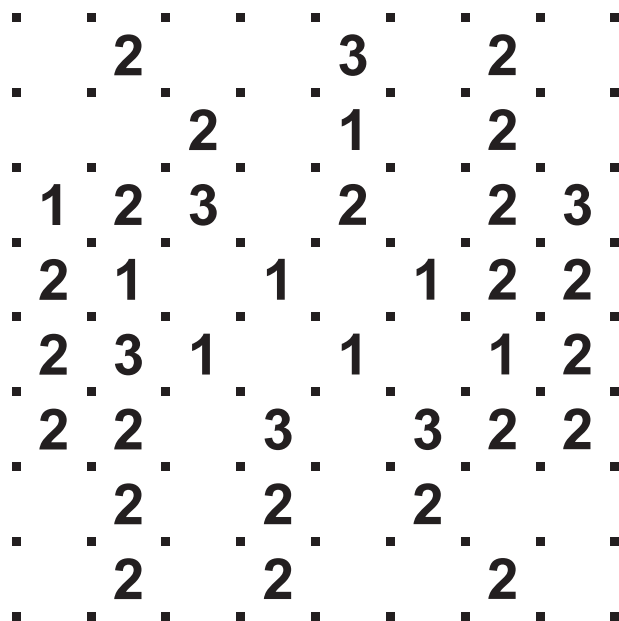
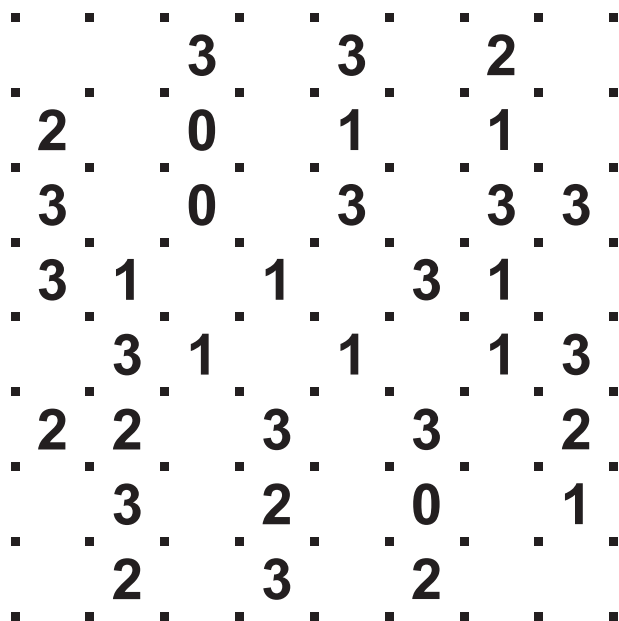


>> Slitherlink

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.



6 Sudoku Xtra

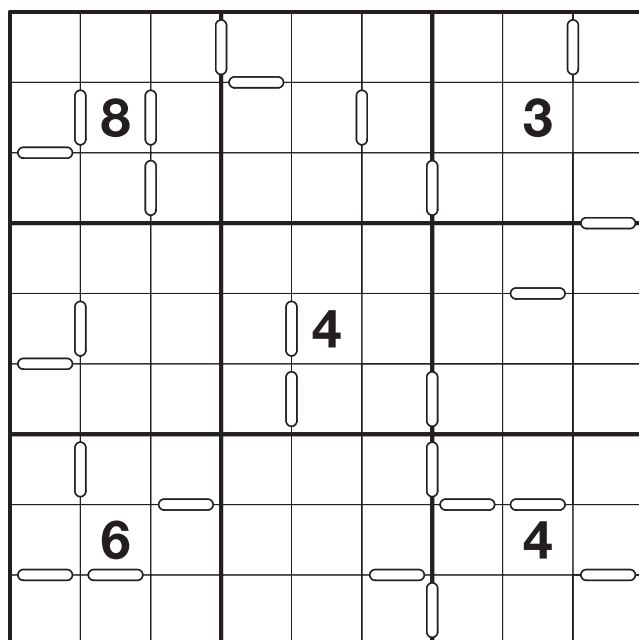
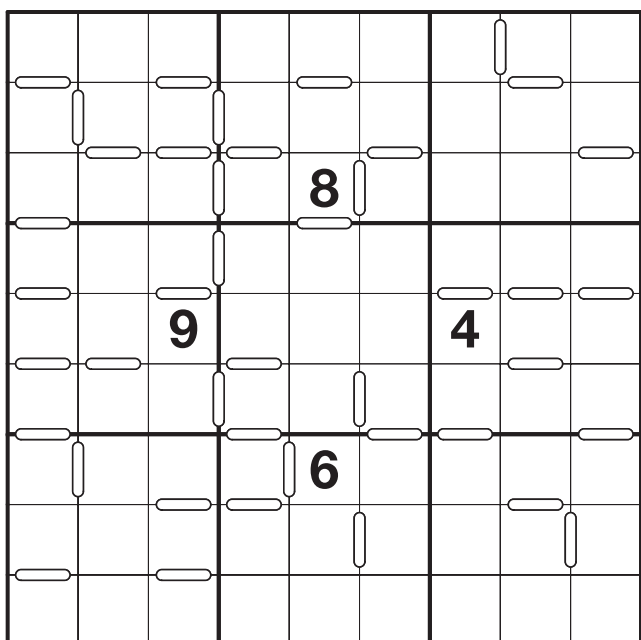
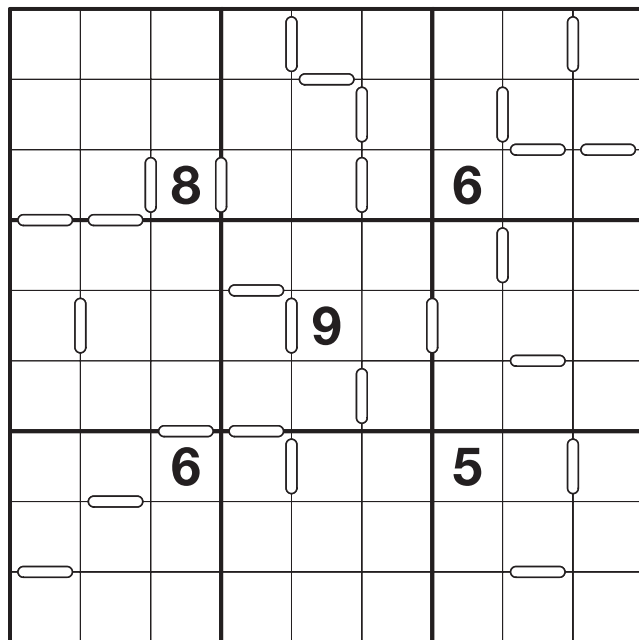
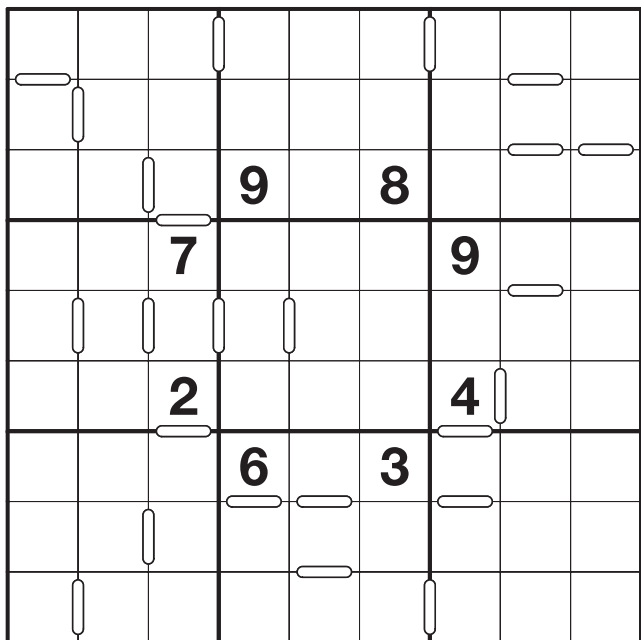
5	3	4	6	2	1	9	8	7
8	7	9	5	3	4	2	1	6
6	2	1	9	7	8	4	5	3
7	1	6	8	4	9	3	2	5
2	4	5	3	1	7	8	6	9
9	8	3	2	6	5	1	7	4
3	9	8	1	5	6	7	4	2
1	6	7	4	9	2	5	3	8
4	5	2	7	8	3	6	9	1

>> Consecutive Sudoku

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

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

> Don't forget that squares **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 squares so that no number occurs more than once per row or column.

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

> All unshaded squares must form a single continuous area.

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

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

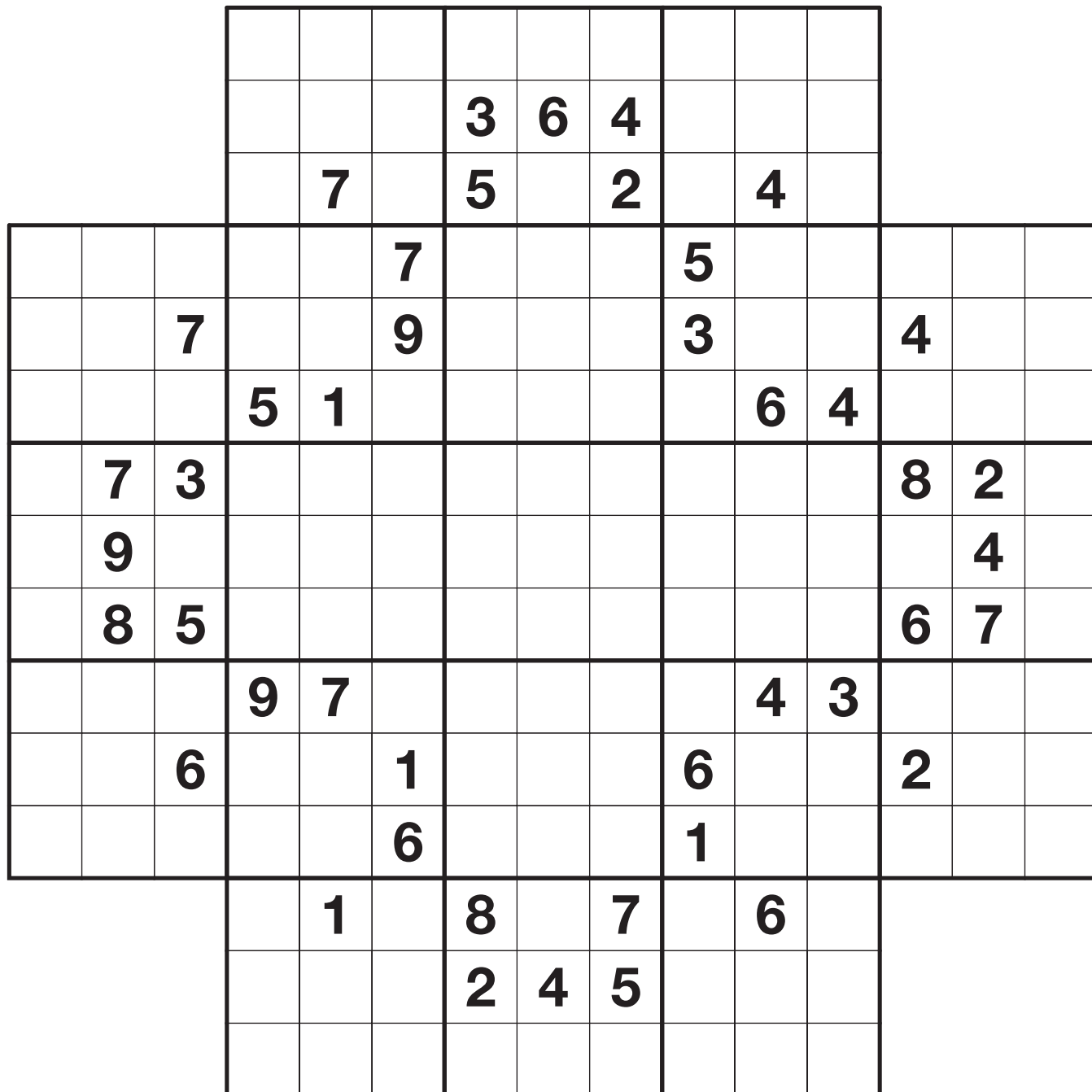
6	2	6	5	6	7	4	4
2	5	8	2	3	6	7	1
1	5	7	3	7	8	8	6
5	1	3	1	4	1	2	1
7	6	7	8	7	5	4	3
3	4	2	4	5	2	6	4
7	3	7	6	6	2	8	5
4	8	1	4	2	3	6	7

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

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

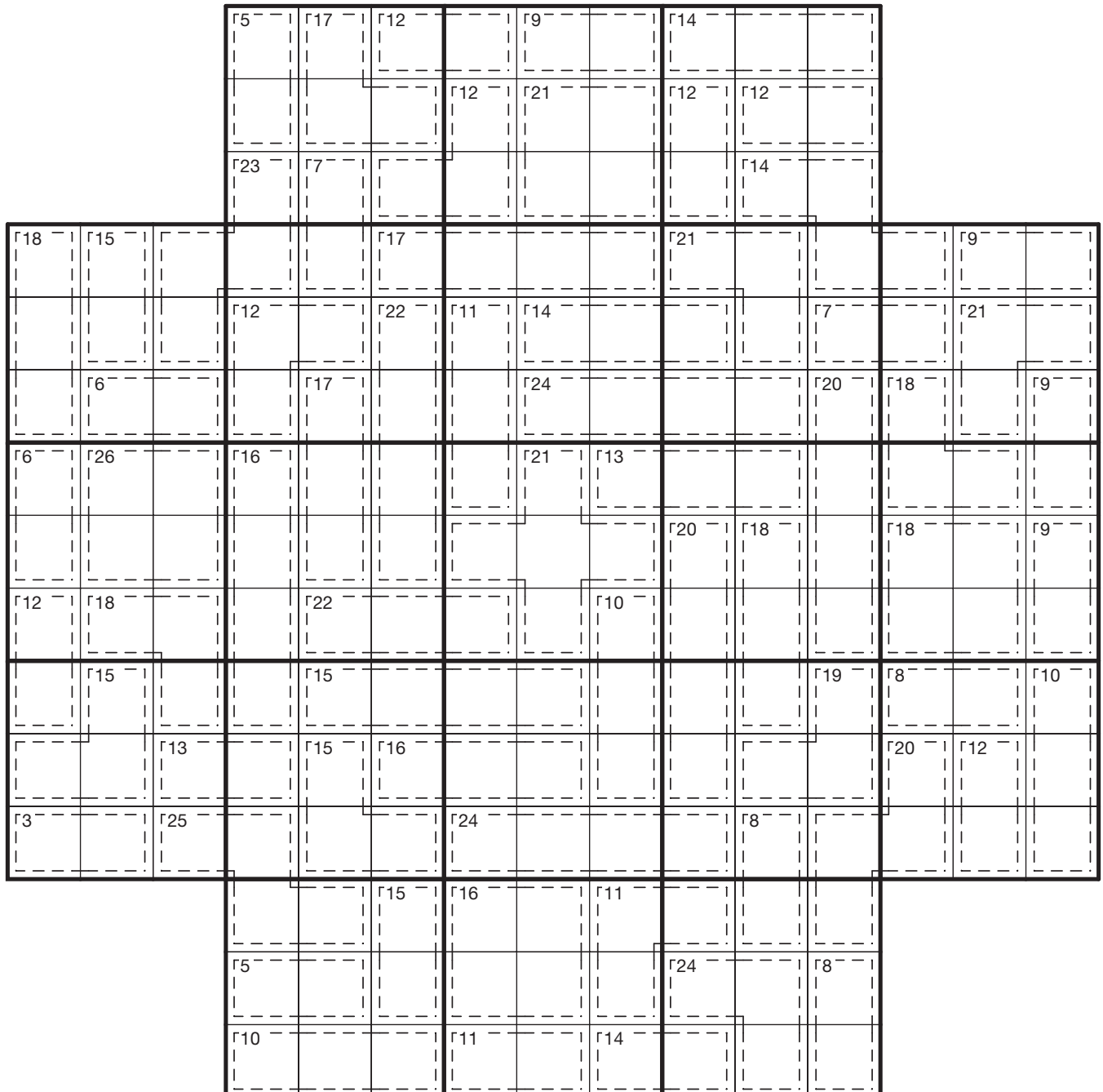
Place 1 to 9 into each row, column and marked 3x3 box of each of the five underlying 9x9 grids.

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



Place 1 to 9 into each row, column and 3x3 box of the five underlying 9x9 grids while obeying the cage totals.

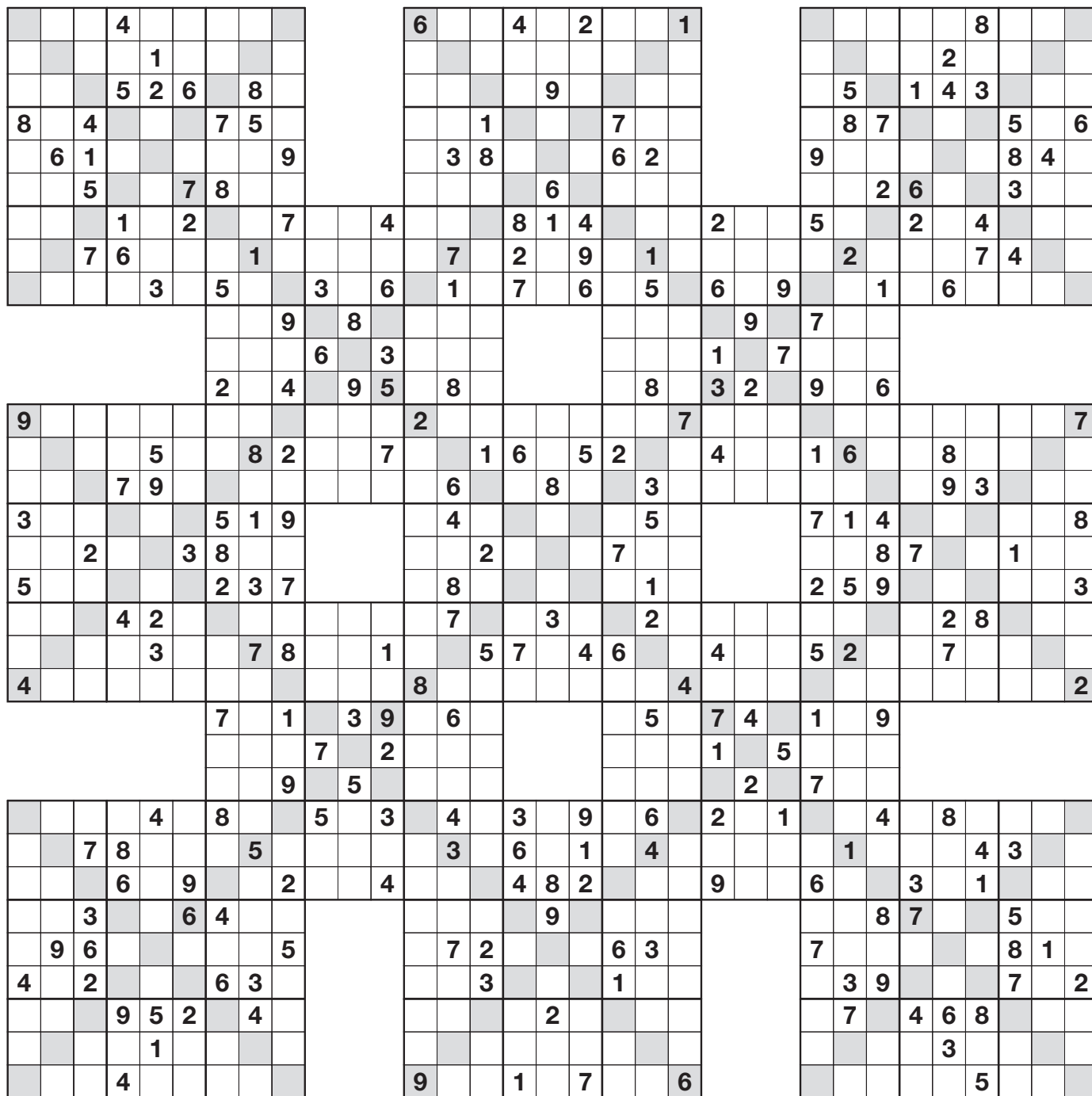
- > The contents of each dashed line cage must sum to the total given at the top-left.
- > You **cannot** repeat a number within a dashed line cage.

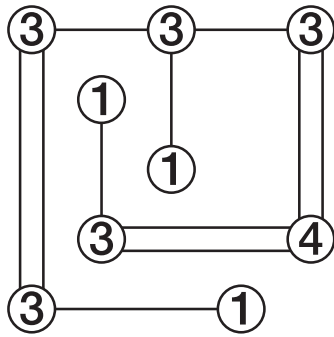


5	4	6	7	8	2	9	1	3		5	1
8	9	7	3	6	1	2	5	4		4	2
2	1	3	9	5	4	7	8	6		6	8
3	5	2	4	9	8	1	6	7		3	7
6	8	1	5	2	7	4	3	9		2	4
9	7	4	1	3	6	5	2	8		1	9
7	2	9	6	1	3	8	4	5	6	7	1
1	6	5	8	4	9	3	7	2	4	5	9
4	3	8	2	7	5	6	9	1	8	3	2
						5	2	4	9	6	8
						1	6	8	7	4	3
						7	3	9	1	2	5
9	5	6	7	8	4	2	1	3	5	8	4
8	3	2	6	9	1	4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

Place 1 to 9 into each row, column, main diagonal and 3x3 box of each of the thirteen 9x9 grids.

> Note that, as in a regular Samurai, **only** the rows, columns and main diagonals within the 13 underlying 9x9 grids are guaranteed to contain all of 1-9. Any row, column or diagonal not entirely within a single 9x9 grid has no restriction on its content.

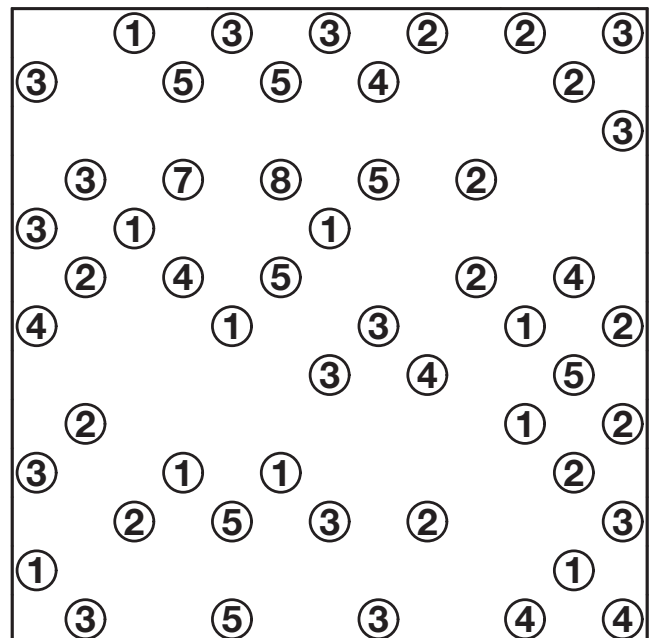
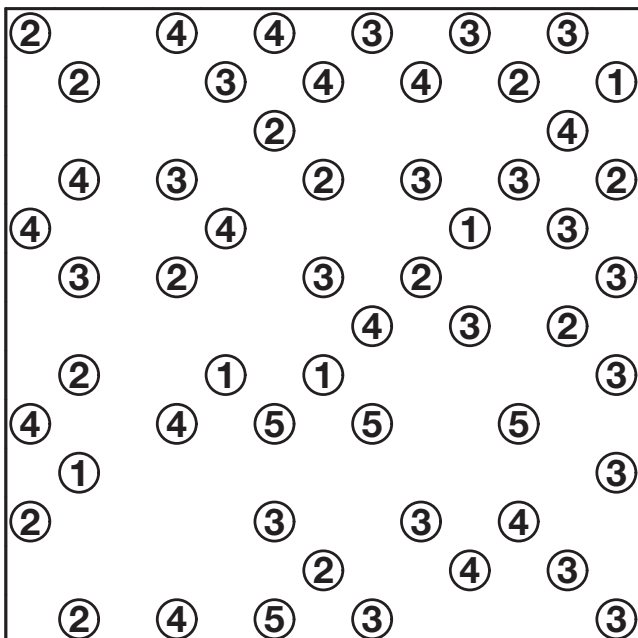
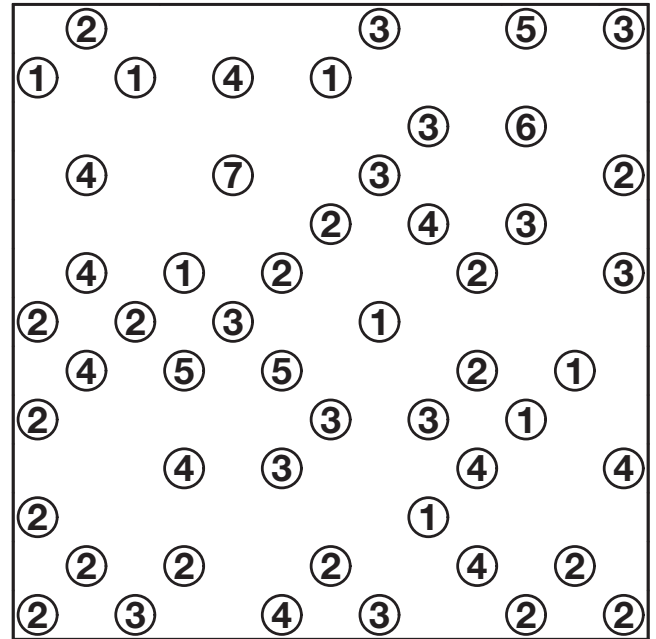
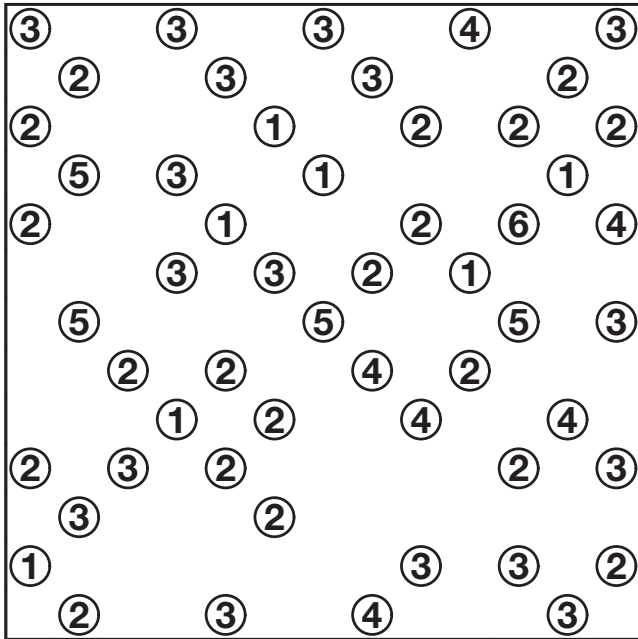




>> Hashi

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.



12 Sudoku Xtra

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

>> Jigsaw Sudoku

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

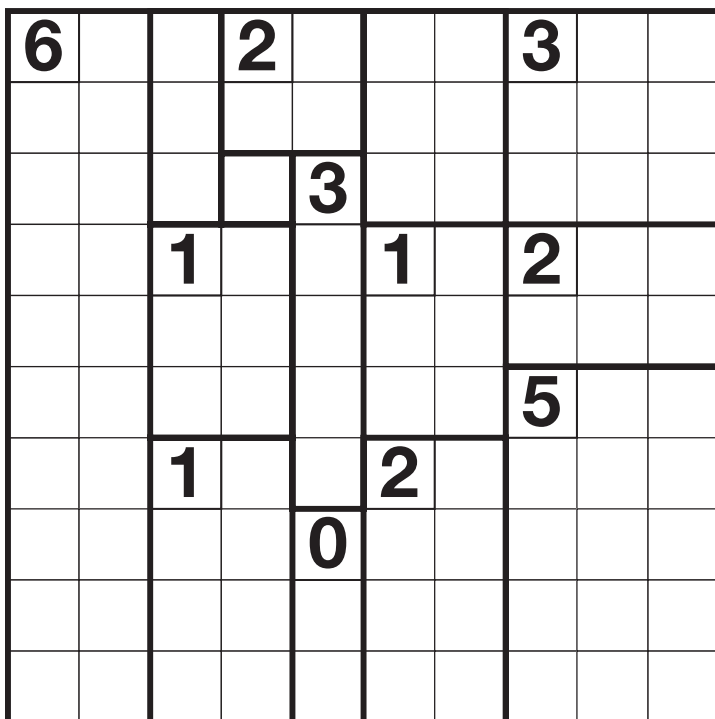
If you'd like to see your own puzzles in Sudoku Xtra's Community Puzzles section (see page 40) then please email david@sudokuxtra.com and let us know! We'd love to feature your puzzles in the magazine, and we can draw them up for you if you don't have print-ready artwork.

				1		
3						
		2				
		1		4		
				5		
						6
		5				

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

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

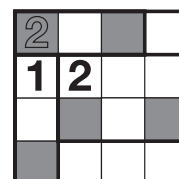
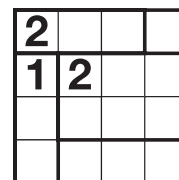
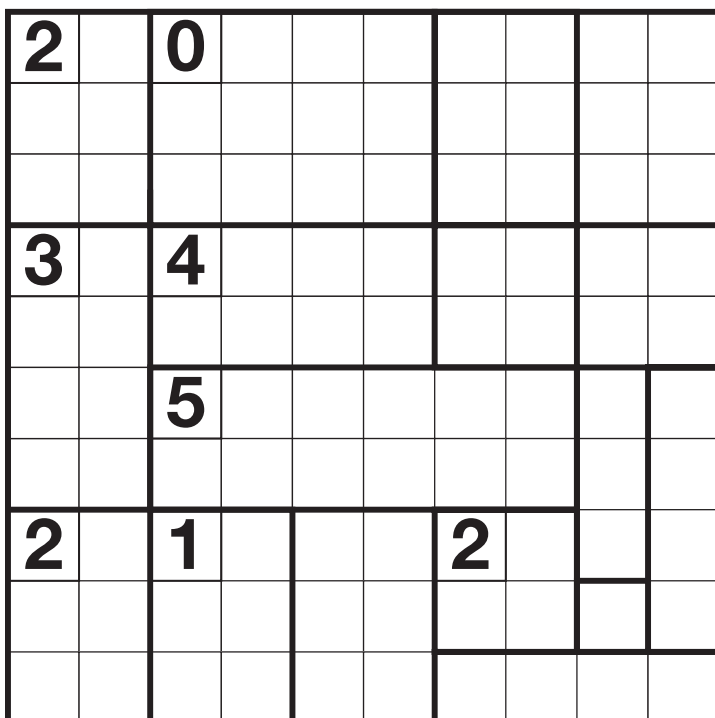
2		8		5			
			6				
3	1						
9					4	7	
	2						4
		2	1				8
						5	3
				8			
				8		3	6



>> Heyawake

Shade in squares as indicated by the numbers and the bold-lined rooms.

- > No shaded squares can touch in either a horizontal or vertical direction.
- > All unshaded squares must form a single continuous area.
- > The interior of no more than two rooms can be visible from any unshaded square, looking up/down/left/right, including that square itself. Shaded squares block the view.
- > Any rooms with a number in must contain precisely that many shaded squares. Rooms without numbers can contain any quantity of shaded squares (including zero).



14 Sudoku Xtra

	5	16				17	16
7	1	6			19	8	9
13	4	9		15	3	9	7
		18	1	8	9	23	
	3	4		4	7	6	16
6	2	1	3			9	7
4	1	3			17	8	9

>> Kakuro

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

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

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

	16	14	18		3	17		
23				4				
24				3				
			3		23		10	11
4			15		10			
15			18					
21				3	3		6	3
			3		6			
			4		7			

			16	24		11	38		
	4	16			16			7	
23					6				
3			17		17		19		17
			38			16			
	17			34					
	15	23	9		15			18	
35					15		17		
24				10		15		16	
			16				4		
	23				16				
			16			11			

			34	16		21	12		
		13			17			6	11
		16							
	15				14				
13	4				12				
				13			11		
31				8		23			
					5				
					10				
		7	7		4				
		7			16			21	3
	5				23				
10				13					
4				13		13			
			17			8			
20					16				
			17						

	10	14					14	14						
12					7	25					16	7		
4				14						13	6			
			15		12				15		13			
	12				30					14				
			12						15		4			
	14	14				16				27				
17								24						
					25									
3			8		13				11					
12				17							8			
			10						11					
	6			10				6			17			
			22						13		23			
	10	17						16	3					
23						29								
24								20						

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
6	7	5	1	<	3	<	4	2

>> Futoshiki

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

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

	3		4	
		3	>	
	4		3	
	<			>

1					2
	>				
			<		>
		<			
			>		
5		<			6

	<			<		
	>	<			<	
		7		3		
		>		<		
		5		7		<
		<		<		>
						>

	7		>		<	2	
8						3	
			<		<		
		>		<			
		<		<			
		<					
3	<						4
	3	<			>		4

16 Sudoku Xtra

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 [123]

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 final puzzle place these numbers: **1 2 3 11 12 13 21 22 23**

r16	r11		r12		r18		r8	
	r6				r13	r15		
	r10	r16		r11		r30		
		r16		r27	r11			
r31		r8						
			r13	r3		r16		
		r13	r13		r10		r7	
r10			r11	r23				
r15					r12			

r11	r11	r11	r5	r15		r15		r12
				r11		r9		
r20	r25						r18	
	r16			r36		r12		
		r3					r18	
r14				r14				
r21		r17	r24					
			r8	r6	r9	r10	r13	
	r6		r15					

r32		r13		r4	r16		r13	
r11			r24					
			r6		r10	r8		
r25				r27		r7		
r8		r3			r17		r13	
r8		r10			r21			
r10			r10	r8	r34		r8	
r5	r24		r10					
				r20				

r60			r44			r16		
	r26	r16		r60		r23	r46	r14
r44		r33						
	r37		r94			r19		r44
r5								
	r34		r71			r14		r33
r33		r24			r38		r23	
								r59
r15		r47						

	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 1 to 5, 1 to 6, 1 to 7 or 1 to 8 into each 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.

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

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

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

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

18 Sudoku Xtra

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

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

>> Samurai Sudoku

Place 1 to 9 into each row, column and 3x3 box of each of the 5 underlying 9x9 Sudoku grids.

Sudoku Xtra is a regular magazine - issue 17 is due out in October 2011. Issues are available immediately on www.SudokuXtra.com (download) and Lulu.com (printed), then on Amazon.com (printed) in the following days.

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

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

			7	9	5			
		7	2		3	9		
			6	1	8			

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

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

Place 1 to 9 into each 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 squares 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.

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

- > Don't forget the 'hidden' fifth 9x9 Sudoku grid in the centre of the puzzle.
- > See opposite (P.21) for instructions on solving Skyscraper puzzles.



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

>> Skyscraper Sudoku [Jigsaw]

Place 1 to 6 (or 8 or 9) into each row, column & bold-lined area.

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

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

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

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

22 Sudoku Xtra

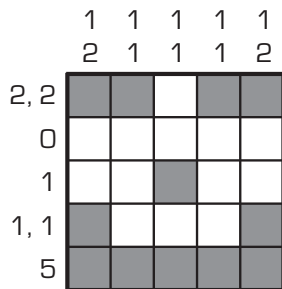
>> Hanjie

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

> The clues provide, in order from the left or the top, a list of the length of every run of consecutive shaded squares in each row or column.

> Each run is separated by at least one empty square. For example "2,3" means there is a run of 2 shaded squares, followed by at least one empty square, and then 3 consecutive shaded squares.

> Take a look at the example below to see how the clues correspond with the solution.

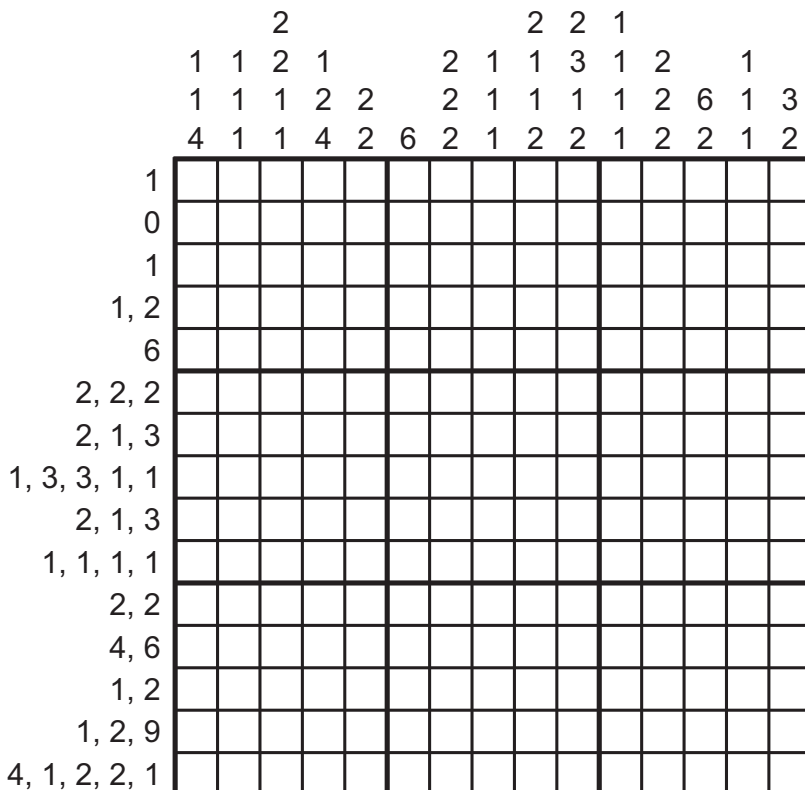
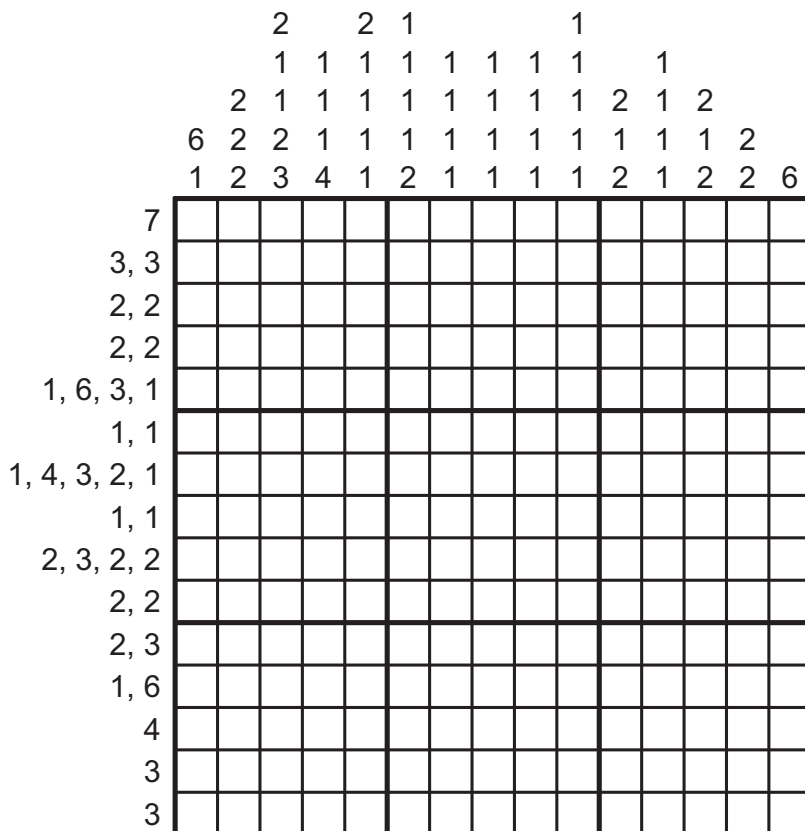


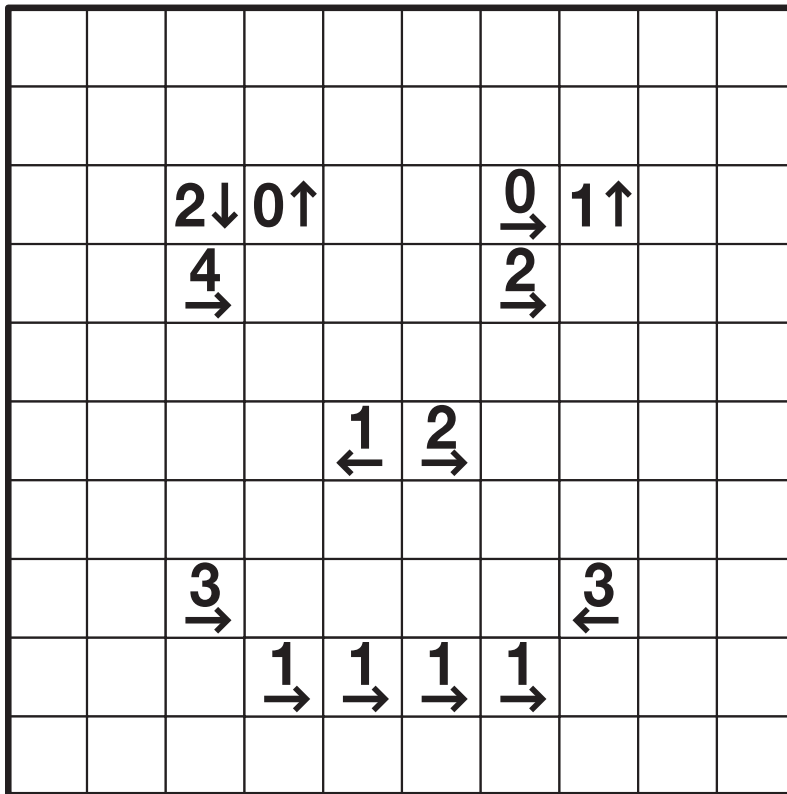
Clue (top):

Coffee break

Clue (bottom):

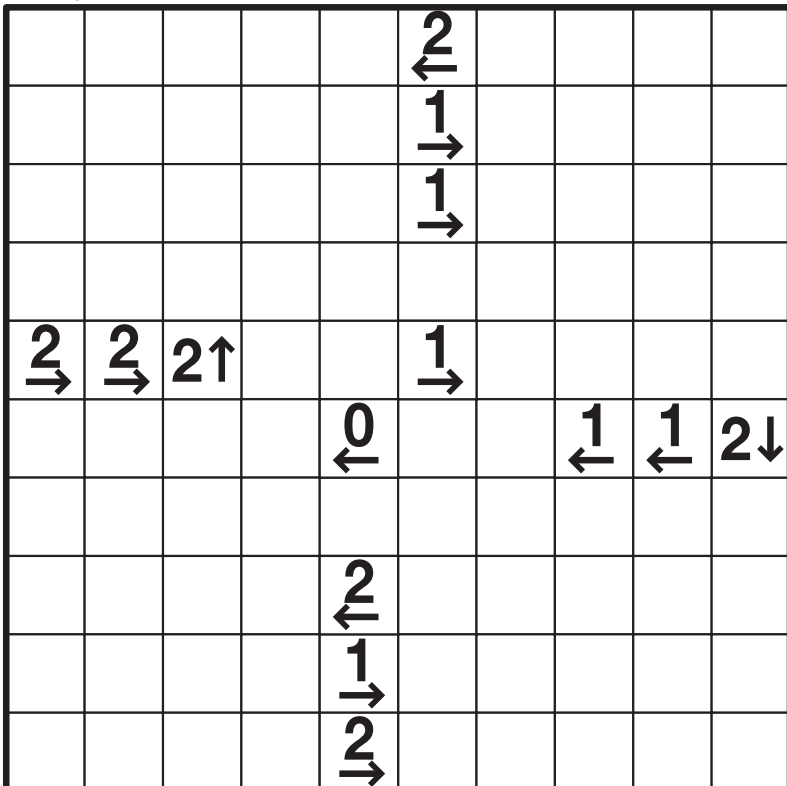
Tea break





“Smiley face”

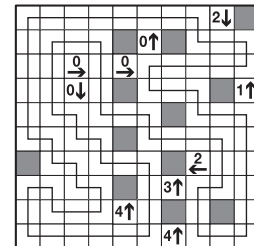
“Windmill”



>> Yajilin

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

- > Any squares which the loop does not visit must be shaded, but none of these shaded squares can touch in either a horizontal or vertical direction.
- > Numbers with arrows indicate the exact number of shaded squares in a given direction in a specific row or column, but not all shaded squares are necessarily identified with arrows.



If you'd like to see your own puzzles in Sudoku Xtra's Community Puzzles section (see page 40) then please email **david@sudokuxtra.com** and let us know! We'd love to feature your puzzles in the magazine, and we can draw them up for you if you don't have print-ready artwork.

24 Sudoku Xtra

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 into each 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: Also place 1 to 6 on each 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.26; no digits repeat in any killer cage]

	1				
	2				
6					3
3					4
				6	
				2	

					<
	>				
			6		>
			<	>	
<		^	>	^	
<		3			
	^	>			<

2		5			
					1
				3	
	5				
5					
			4		2

	4				
			3		
6					2
3					4
		5			
				5	

5					
					6

r2÷	r7+	r0-	r12x		
				r180x	
r360x	r40x				
		r0-			
		r10+	r2÷	r11+	
r2÷					

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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

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

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

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

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

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

26 Sudoku Xtra

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

>> Killer Sudoku Pro [+/-]

Place 1 to 9 into each row, column and bold-lined shape, while obeying the Killer Sudoku cage 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.
- > You **cannot** repeat a number within a dashed line cage.
- > In the final puzzle place these numbers: **-4 -3 -2 -1 1 2 3 4 5**

112x			18+		11+		7+	
24+				210x			48x	
2-			11+		9+	18x		16+
3+	16+	15+		17+			30x	
				18+	9+		10+	
1-		15x	2-					
	378x			120x	25+	18x		
				18+				
6-		24x			15x			

2-		14+		5+		12+	27+	
1-		13+		4x				
15+		2-	13+	1-		12+		14x
	20+			72x	3÷		13+	
			10+					0-
9+		48x			45x	1-		
	25+		2-				120x	
		3-	4-		16+			
		3-		5+		42x		

18+	18+		25+	12+		48x		
	2÷				1080x			
	3÷	48x		28+			7x	
		26+		6+				
6+				72x		56x		
6-	1920x	13+				15x	24+	
				2-				
17+			336x		2÷			
		12x		432x				

4-	3-		4-		3-			
			3-	4-	8x	6+		
3-						0-		
5-			5-	3-			11-	
0-		1-		3+				
	4-	4x			60x	2x		
		5-	6x			6x		
12x					72x	10+		
6-		32x						

Values to place: **-4 -3 -2 -1 1 2 3 4 5**

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

>> Odd Pair Sudoku

Place 1 to 9 into each row, column and 3x3 box while obeying the odd pair 'O' markers. ('O' for 'odd')

- > Some neighbouring squares have a small circle between them. This indicates that **the sum of the values of these two squares is an odd number**. For example, a 3 joined with an 'O' to a neighbouring square means that square can only contain 2, 4, 6 or 8.
- > Note there is no 'inverse' rule. The absence of a circle has no meaning.

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

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

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

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

28 Sudoku Xtra

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

>> Sudoku-X

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

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

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

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

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

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

>> Sudoku 8x8 and Sudoku 10x10

In the top two puzzles, place 1 to 8 into each row, column and bold-lined 4x2 box.

In the bottom two puzzles, place 0 to 9 into each row, column and 5x2 bold-lined box.

8	2	7	1	9	5	6	0	4	3
5	0	6	3	4	2	8	9	7	1
7	4	9	0	1	8	2	6	3	5
2	5	8	6	3	4	9	7	1	0
9	6	1	7	2	3	5	4	0	8
3	8	0	4	5	6	1	2	9	7
1	7	4	5	8	9	0	3	6	2
6	9	3	2	0	1	7	5	8	4
4	1	5	9	7	0	3	8	2	6
0	3	2	8	6	7	4	1	5	9

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

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

				3		0			5
			0		8		9		
		2		6					8
8				9		7	2	1	
	2	5			0	4	8		6
	8	6			2	1	5		9
7				1		2	0	9	
		0		4					7
			1		4		3		
				2		6			1

5			7	3	4	2			9
			4			5			
				6	2				
	2	7					5	0	
4		3		7	1		6		5
9		2		1	7		4		8
	1	6					9	4	
				9	6				
			9			3			
0			2	5	8	6			1

>> Sudoku 12x12

Place 1 to 9 and A to C into each row, column and 4x3 bold-lined box.

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

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

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

>> Sudoku 15x15

Place 1 to 9 and A to F into each 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

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

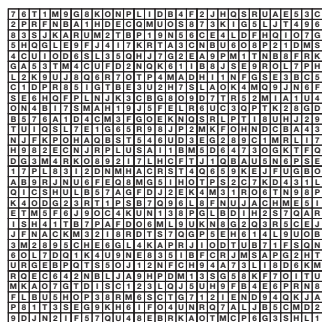
>> Sudoku 16x16

Place 1 to 9 and A to G into each 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

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

32 Sudoku Xtra

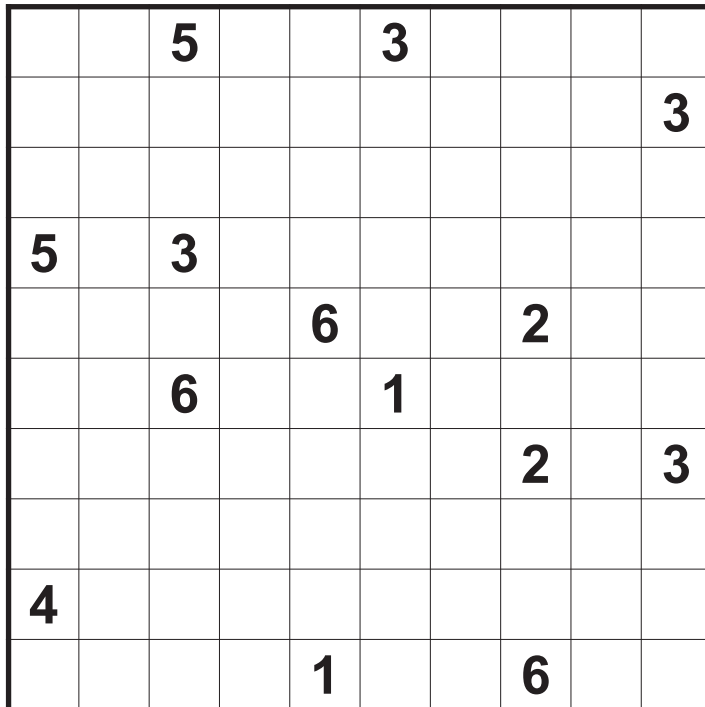


>> Sudoku 30x30

Place 1 to 9 and A to U into each row, column and 6x5 bold-lined box.

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**, **18x18**, **16x16**, **15x15** and **12x12** are now available.

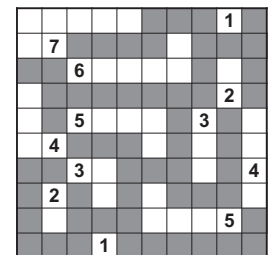
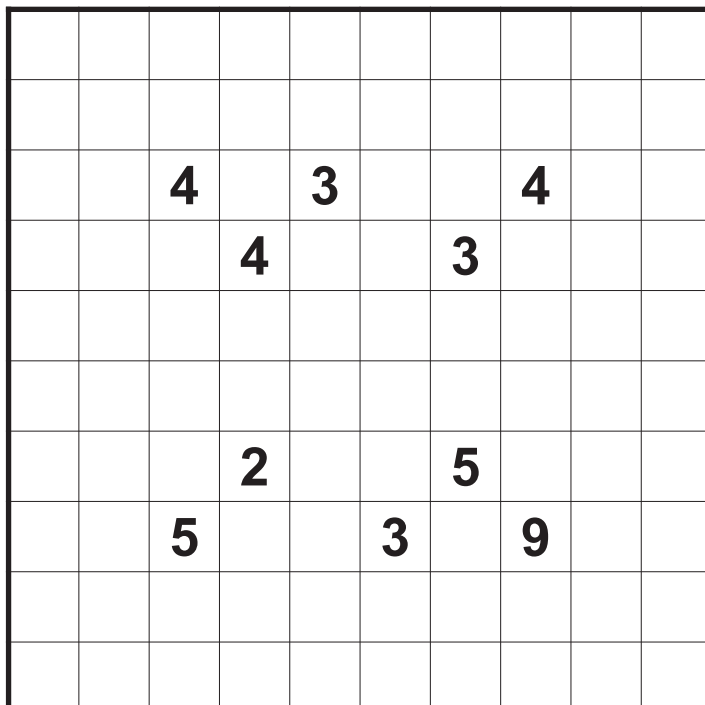
1	D	C				5	H	M		J	L	B		S	9		G	R	U		7	I	3					8	O	Q
7	5		A				I	9						P	F						L	D					2		J	S
L				S			T			N	2		O			I		M	K			6			D					R
	N		4	B			F	D	G	3	5	8			E	A	Q	T	O	9			L		I		M			
		I		O	F	7			U				M			3				N			H	5	E		9			
			E	8	L	P	1			G	I	N							H	3	4		R	7	U	O	T			
G				5	T	Q			8	F		K	6		I	R		2	P		9	J		A	D	3				M
B	7	P			N		S	T	H	2	J	9					F	O	C	8	U	E		4				G	R	5
D	C		U				E	B		R	9		8	G	7	T	O	H		L	Q		5	M			S		6	J
		J	F	Q	6	U	5		O			A		E	3		4		G		N	T	S	9	C	7				
Q		7	M		O		F	C	6	S			4	A	8	H			I	2	E	L		B		R	5		N	
2		J	B		H	L	E					R					U					4	G	Q		8	M		A	
C			N			4	Q	R	8		1	2	5			6	E	A		J	M	S	B			3			O	
		K	P	4				I		D		S	B	Q	N	J	7		5		3				2	1	L			
5	1						K	P	B	U			C	O	M	G			D	H	8		Q					4	F	
N	L						T		J	Q	8			K	3	E	A			M	S	2		4					5	P
		F	1	Q				H		E		D	J	T	P	N	S		R		G				A	9	3			
M			D			1	9	U	A		B	Q	7			5	I	3		C	T	K	O			4			H	
4		3	H		A	M	L					G					O					7	D	T		J	Q		C	
O		8	T		5		R	S	P	3			H	M	C	F			A	1	Q	9		E		D	2		L	
			2	N	M	9	6	7		4		T		G	O		P		J		K	F	1	R	Q	H				
P	Q		R			D	A		J	H		M	1	F	K	B	L			8	3		G	9			6		2	I
A	9	5			1		3	G	2	C	F	E					6	I	N	T	R	Q		7				O	L	4
T				B	C	I		L	K		O	H		8	5		Q	4		7	S		U	J	G					9
			F	E	K	U	P			T	R	S						L	H	M		C	2	A	5	B				
		N		9	G	R			C				D			P				L			8	2	K		E			
	A		O		2			E	7	M	P	F	T			L	5	C	S	I	4			1		U			Q	
3				P			N			6	T		E			Q		F	7			M			L					B
U	H		C				D	K						B	2						A	O				N		9	6	
F	8	Q					H	J	4		A	U	N		C	G		M	E	9		B	2	R				P	S	7



>> Nurikabe

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

- > There can be only one number per unshaded area.
- > Shaded squares cannot form any solid 2x2 (or larger) areas.
- > All the shaded squares must form one continuous area, moving left/right/up/down between squares.
- > White areas cannot touch each other in either a horizontal or vertical direction.



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

>> Suraromu

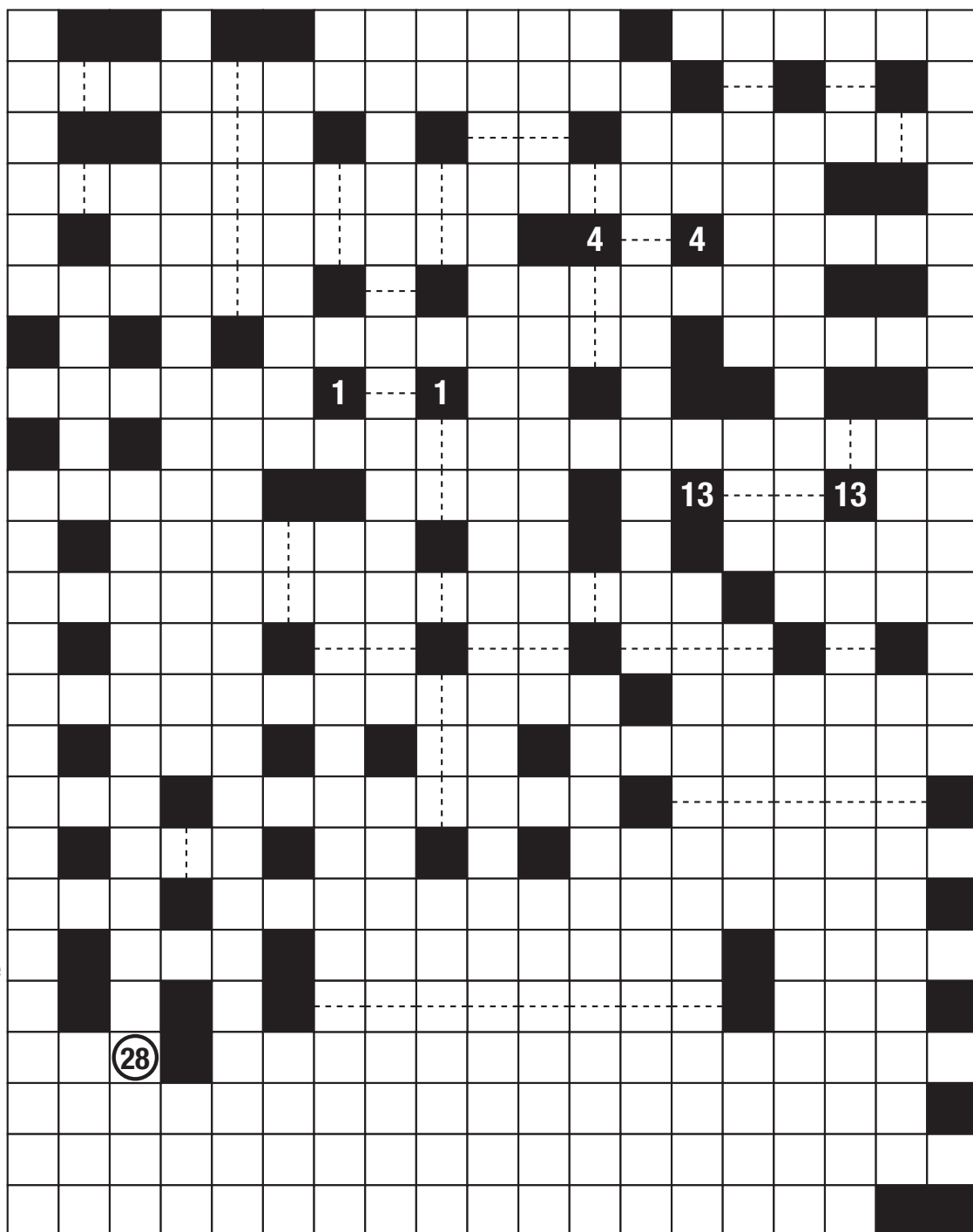
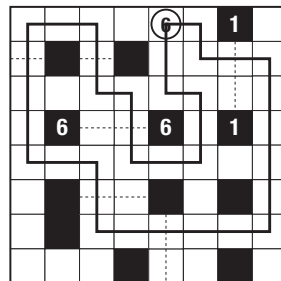
Draw a single loop that passes through every gate in numerical order.

- > The puzzle contains 'x' dashed-line gates, each of which can be travelled through only once. Some gates are numbered, 'n', and must be passed through as the 'n'th gate in the loop.

- > The loop cannot enter any square more than once, and can only travel horizontally or vertically.

- > Between the 'x'th and 1st gate the puzzle must travel through the square containing the circled number, which is equal to the number of gates, 'x'.

- > Numbered gates have numbers on both sides of the gate, except if the gate touches the edge of the puzzle in which case it has a single number.



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

>> Wraparound Sudoku

Place 1 to 9 into each row, column and bold-lined jigsaw region.

> Some regions 'wrap around' the outside of the puzzle, travelling off one end of a row/column and continuing on the square at the opposite end of the same row/column.

> You may find it easier if you help distinguish the different regions by colouring them in first.

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

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

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

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

36 Sudoku Xtra

	5	16				17	16
7	1	6			17	8	9
13	4	9		19	3	9	7
		18	1	8	9	23	
	3	4		17	4	7	6
6	2	1	3		16	9	7
4	1	3			17	8	9

>> Kakuro

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

- > Each horizontal run of white squares adds up to the total above the diagonal line to the left of the run, and each vertical run of white squares adds up to the total below the diagonal line above the run.
- > No digit can be used more than once in any run.

					15	36		9	33		4	17		21	7
		11	11	11			16			6				5	
	14			16			7			7				14	
	14			23		9		7	3		15			10	
	5	8			15			8			8			14	9
28					9			7			18				
12				6			16					10			
		15	22				9			31					
	10					6				5					
					7				11					4	24
	20				6				12						
				6					23			20			
	10	8	24				9				37	10			14
33						14			16					17	
					23							23	22		
7				21					25						
			20						6						
		4			15				11			11			4
	12														
					17				9			19			
	12				12			12			7				
17				15			12			6			10		
6				14			4			10					

	1	1	1	1	1
	2	1	1	1	2
2, 2					
0					
1					
1, 1					
5					

>> Hanjie

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

- > The clues provide, in order from the left or the top, a list of the length of every run of consecutive shaded squares in each row or column.
- > Each run is separated by at least one empty square. For example “2,3” means there is a run of 2 shaded squares, followed by at least one empty square, and then 3 consecutive shaded squares.

Clue:

Flashy

```

      1 2
    1 1 1 1 1
  2 2 1 1 2 1 2 6
3 6 1 2 2 1 2 1 2 2 3
3 1 2 2 1 2 1 2 1 1 3 1
1 1 2 2 1 1 1 1 1 1 2 2
2 1 1 1 1 1 1 1 1 1 2 1
      4 5 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 3 1 2 2 2 3
    2 2 2 3 4 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 3 1 2 2 2 3
    1 1 1 2 1 2 2 6 4 2 3 3 2 3 2 3 2 2 3 3 6 2 1 1 1 1 1 1 4
15 10 10 10 10 10 10 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 10 10 10 10 10 10 15

```

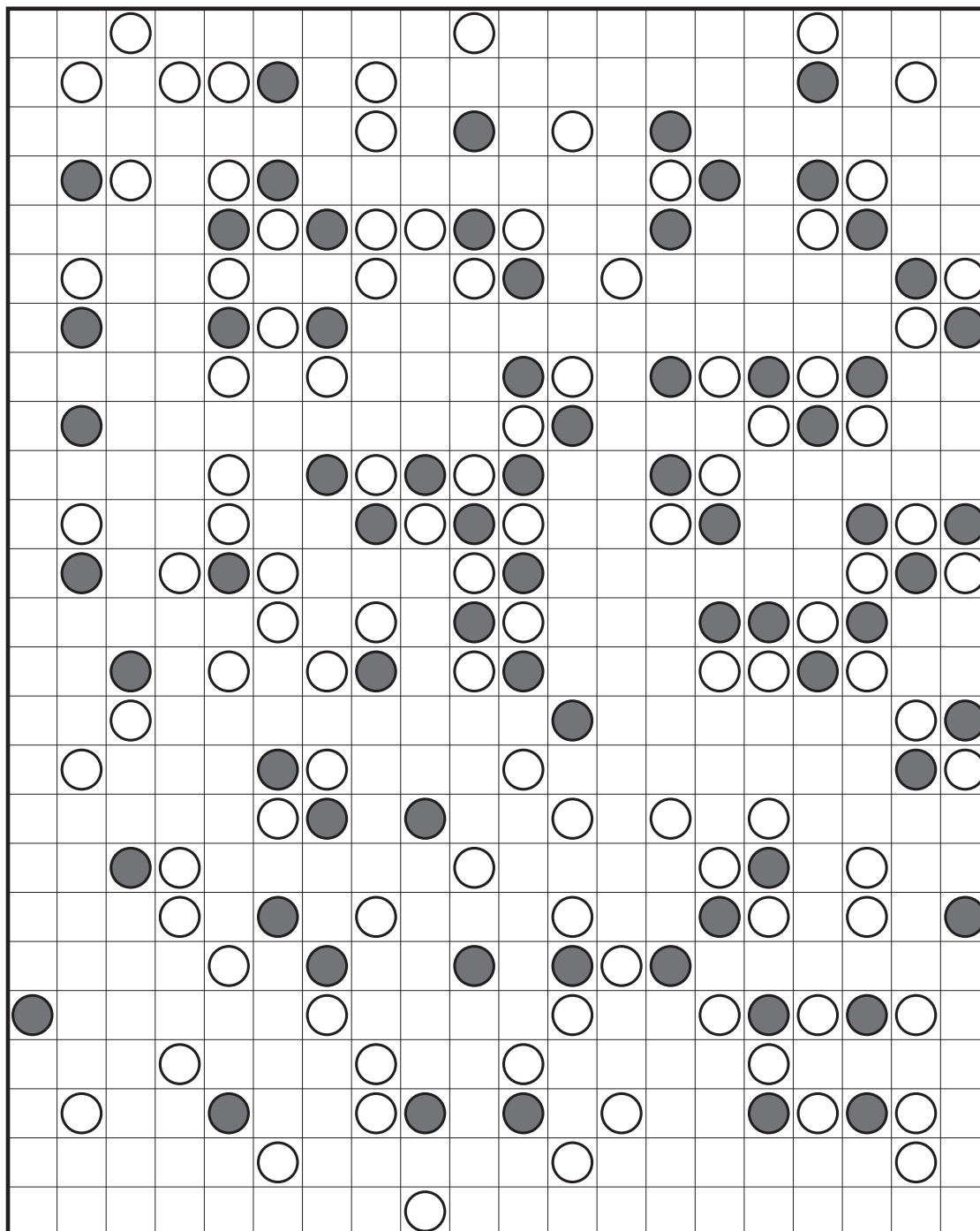
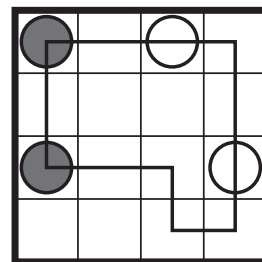
[illegible]

38 Sudoku Xtra

>> Masyu

Draw a single loop that passes through the centre of every circle.

- > On a shaded circle you must turn 90 degrees and continue straight for at least one square each side.
- > On a white circle you must continue straight but then you must turn 90 degrees on one or both of the adjacent squares.
- > You cannot pass through a square more than once.



>> 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 new Sudoku Xtra Specials books of particular Sudoku variants.

>> Getting hold of Sudoku Xtra

Issue 17 will be available in October 2011, but if you don't already have all sixteen 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.com (with free super-saver shipping, if eligible) or Lulu.com. Due to delivery costs and times, Amazon is recommended for US readers, while Lulu.com is usually a cheaper and faster choice for other countries, since they have distribution sites across the world. Overseas (non-US) Amazon stores sometimes sell Sudoku Xtra, but they may not have all issues and some may only be sold by Marketplace sellers at [potentially] marked-up prices.

>> Xtra Calcudoku

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

> **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 the stated operation is applied between all the numbers in that cage.

> **Inequality signs** between some squares indicate that the value in one square is greater (>) or less (<) than its neighbouring square.

48×		<	<	31+	1680×	35×	>	
22+				^	^		36+	>
^	^		^	^		^	^	<
	38+		16×	7+	22+			
			^		^	^	1536×	
	<	^	16+			^	^	
	<	^	^	^				
	^		^	^				
14+	<				16+	^	^	

40 Sudoku Xtra Community Puzzles

>> Community Puzzles: Content from other authors

Hello Sudoku Xtra readers!

Bastien Vial-Jaime, or “Ours Brun” as he’s known to much of the online puzzle community, is the latest of the prolific puzzle proprietors printed in our publication. Bastien has provided two excellent **Sudoku variants** for your solving pleasure that we know you’ll enjoy.

It simply wouldn’t be Sudoku Xtra without a wealth of contributors, and this month Laurence May returns with a great new path-finding puzzle, **Tiktaka**. We also bring you more from the likes of Jim Bumgardner with new **Altair Slitherlink** and **Krypto Kakuro**, Elliott Line with **Zipline** and **Fences**, plus **Labyrinth** from Nathan Roberts and **Four Squared** from Debbie Rahav. Clarity Media presents another fleet of **Battleships**, Grant Fikes has a fresh **Fillomino** puzzle, there’s a truly giant and challenging **Heyawake** from Tom Collyer, plus reader-requested favourites **No 4 in a Row** and **Frameless Sudoku** from Deb Mohanty. There’s even a few novel surprises from Anuraag Sahay, and my own play on various loop-building puzzles, **Area 51**, mixing Slitherlink, Masyu, Corral and more! We hope everyone will find lots to enjoy in this issue!

As I continue helping Gareth with the Community Puzzles section, we would love to feature more contributors in upcoming issues of Sudoku Xtra. If you’re interested in seeing your puzzles in print then email me at **David@SudokuXtra.com**. **David Millar, Community Puzzles Editor**

>> Fillomino

Fill every empty square with a number of any value.

- > Each number forms part of a continuous region of squares of the same value. The region must have the same number of squares as that value.
- > Two different regions with the same number of squares cannot touch (share an edge).
- > Some regions may have no pre-printed numbers at all, while others may have multiple pre-printed numbers.

	4	1	5
3	2	1	

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

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

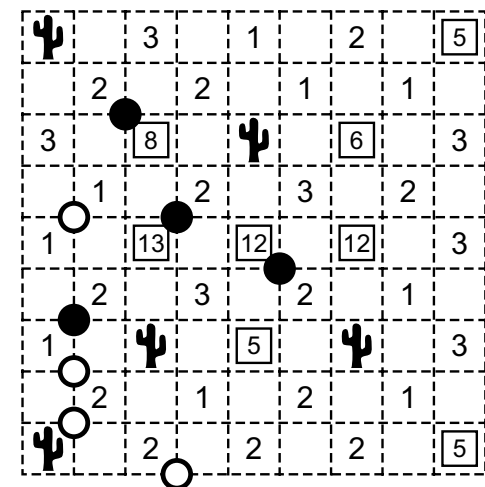
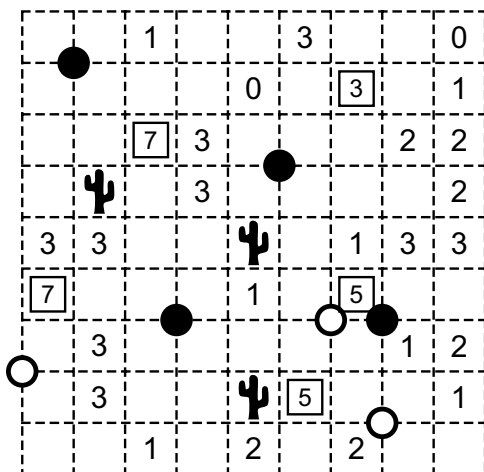
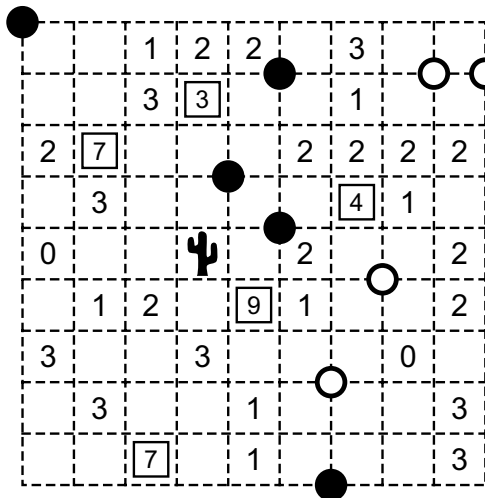
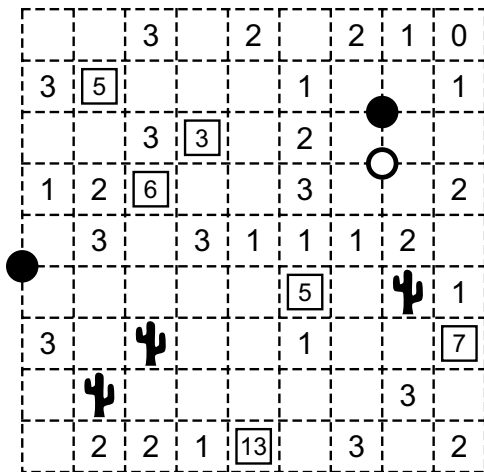
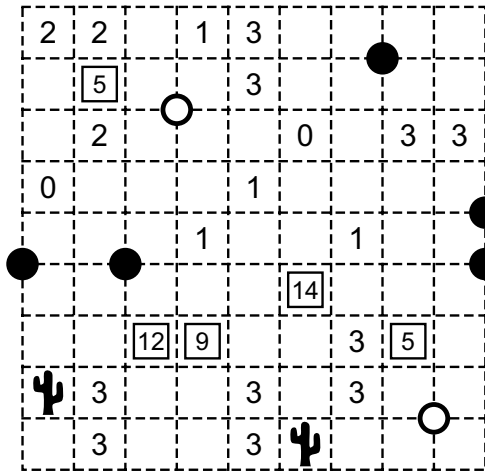
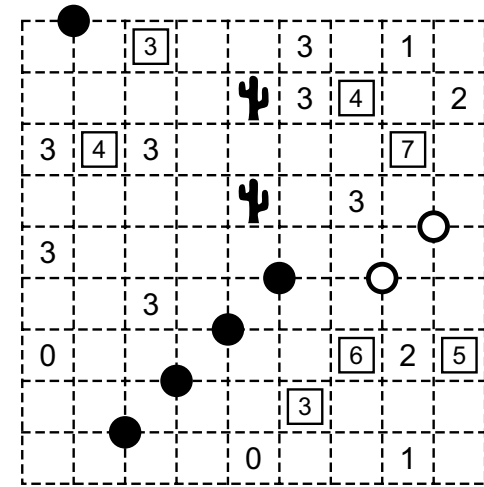


A Cleverly-Titled
Logic Puzzle Blog

Created by **Grant Fikes**: mathgrant.blogspot.com

>> Area 51

Draw along some dashed lines to form one single loop per grid, such that:



> Each cell with an **uncircled digit** is a **Slitherlink**-style clue, and must have that number of walls around it.

> **Numbers** enclosed in a square (□) are **alien pods** and represent **Corral**-style clues. The cell must be inside the loop and the number tells how many cells can be seen up, down, left, and right (plus itself) from that cell before reaching a wall.

> Filled **black circles** on the grid intersections must have a 90 degree turn with at least one straight section both before and after, as in **Masyu**.

> Empty **white circles** on grid intersections must have a straight section of wall with a turn before and/or after, as in **Masyu** puzzles.

> All of the **cacti** must be **outside the loop**.



Puzzles by **David Millar**: Visit The Griddle (www.thegriddle.net) for more!

42 Sudoku Xtra Community Puzzles

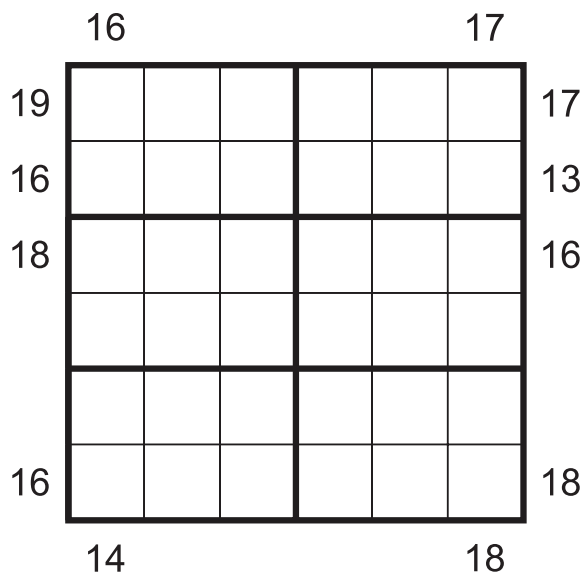
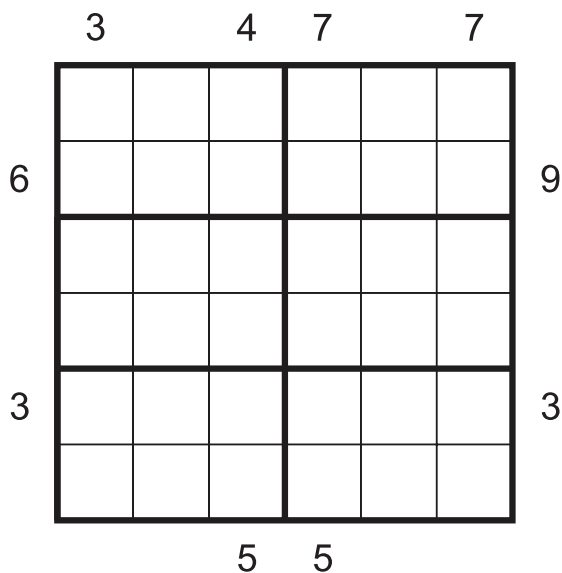
>> Frameless Sudoku

For each grid, solve as a standard sudoku of its size, placing 1 to 6 or 1 to 9 once each into every row, column and bold-lined box.

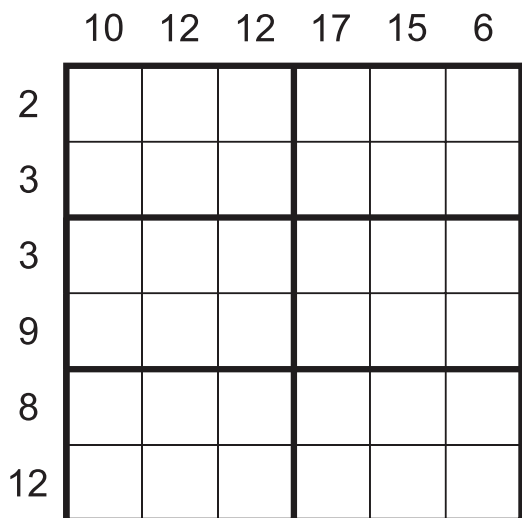
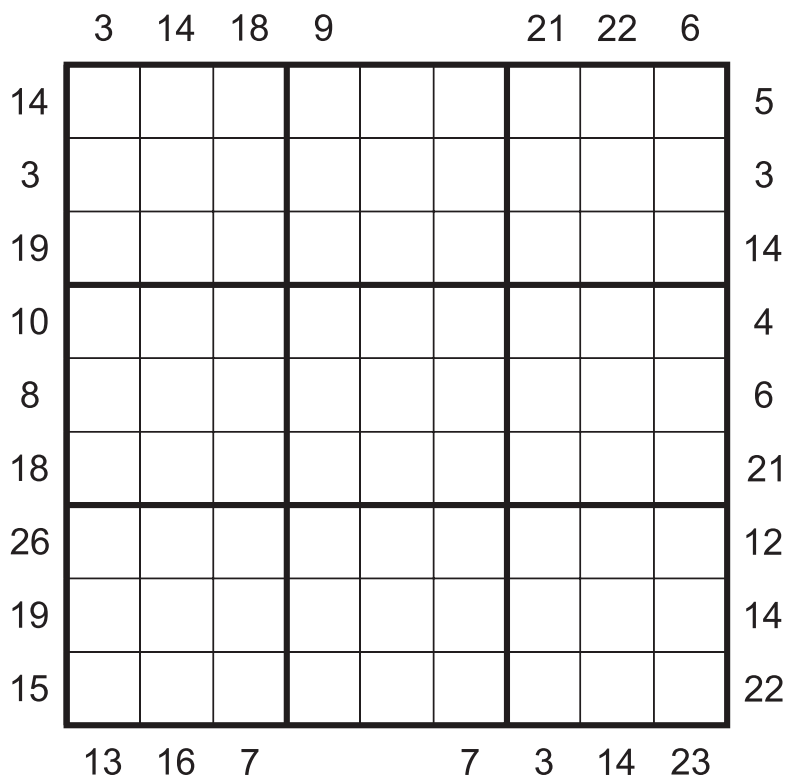
> Numbers outside the grid represent the sum of the first 'X' numbers closest to the edge. 'X' may be any amount of digits and may be different for each sum. Take a look at the example to the right.

Puzzles on this page created by **Deb Mohanty**.

	11	7	17	9	3	13	
11	5	4	2	1	3	6	10
10	1	3	6	5	4	2	2
15	2	6	4	3	5	1	6
11	3	1	5	2	6	4	4
10	4	5	1	6	2	3	3
15	6	2	3	4	1	5	5
	10	7	4	12	3	8	



Deb creates puzzles and hosts competitions with other members of the Indian puzzle community at LMI: <http://logicmastersindia.com/>

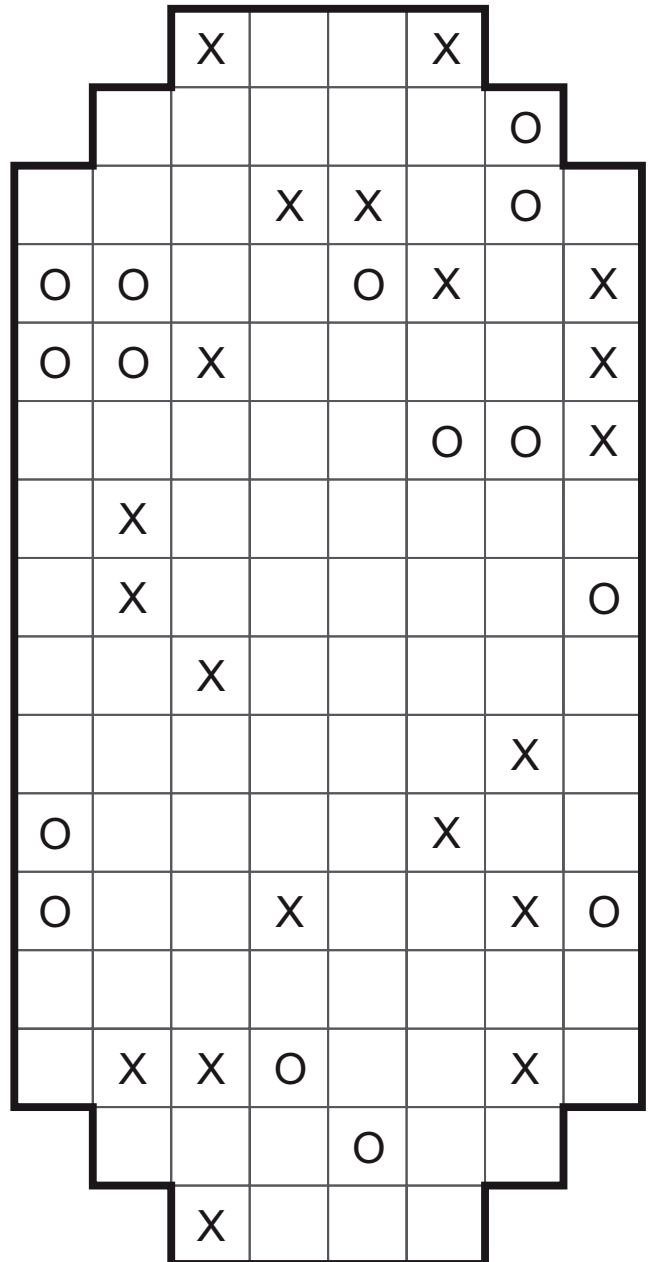
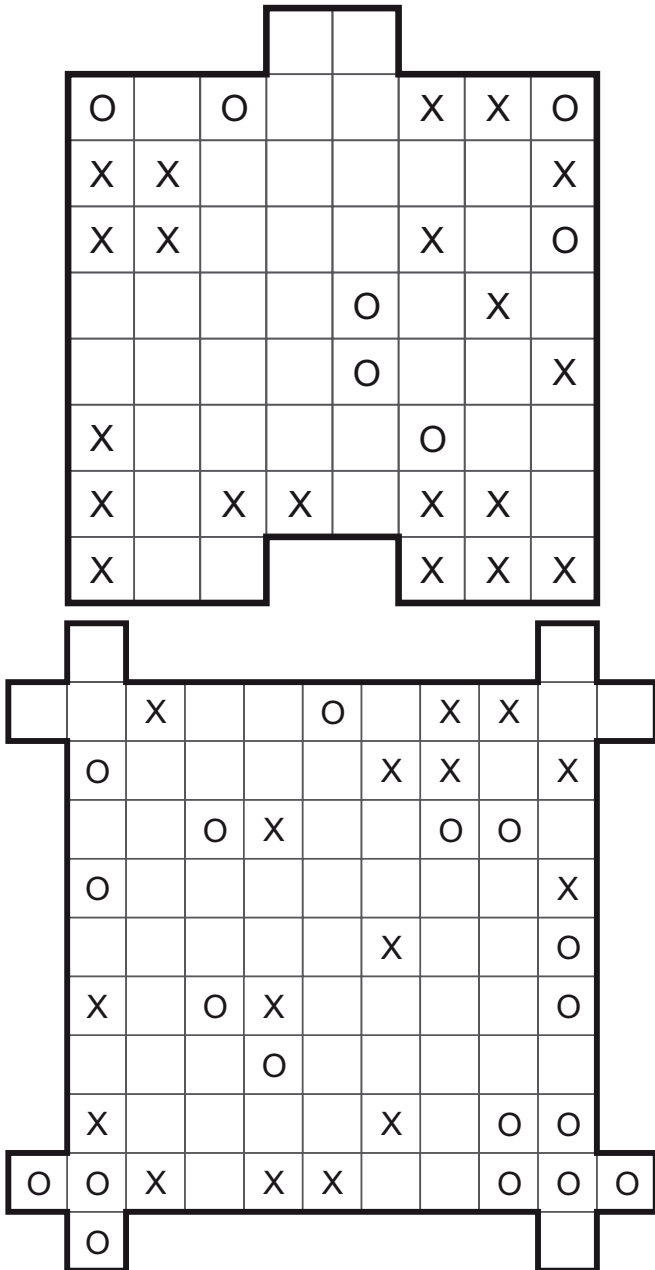
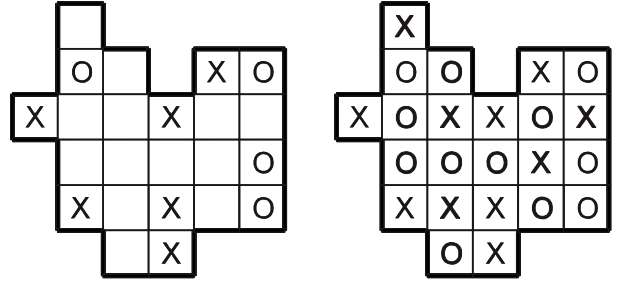


Community Puzzles

>> No 4 In A Row

Fill the empty cells in the grid with either an 'X' or an 'O' such that no line of 4 consecutive 'X's or 'O's is made in any direction, including diagonally.

Puzzles on this page created by **Deb Mohanty**.
Deb creates puzzles and hosts competitions with
other members of the Indian puzzle community at
LMI: <http://logicmastersindia.com/>



44 Sudoku Xtra Community Puzzles

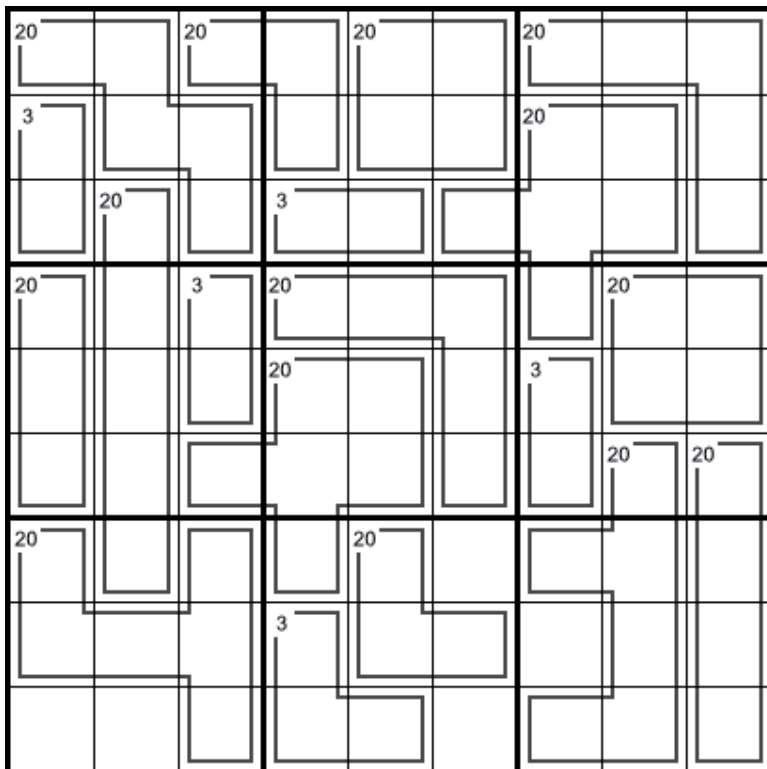
>> Killer Spring 0-8

This Killer Sudoku celebrates the start of Spring: 20/3.

- > Place one each of **0 to 8** 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.

Puzzles created by **Bastien Vial-Jaime**. (aka Ours brun). For many other logic puzzles, sail to his island at <http://ile-logique.blogspot.com/>

Values to place: **0 1 2 3 4 5 6 7 8**

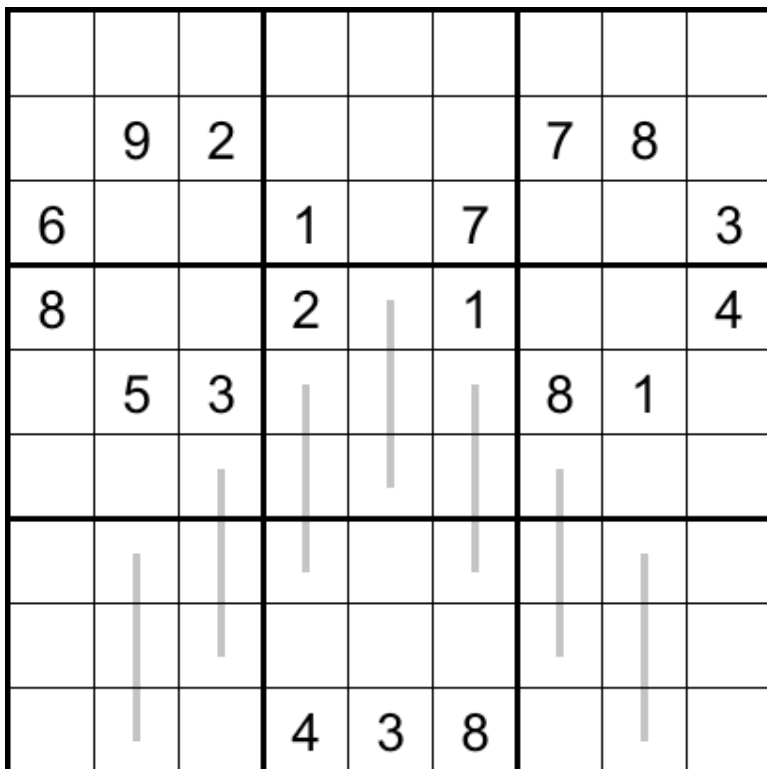


>> Sequences 3 Sudoku

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

- > Every continuous ordered **arithmetic series** of 3 or more digits is indicated by a grey line. This includes diagonal lines as well as horizontal/vertical lines. For example, 5-6-7, 2-4-6 or 3-6-9.

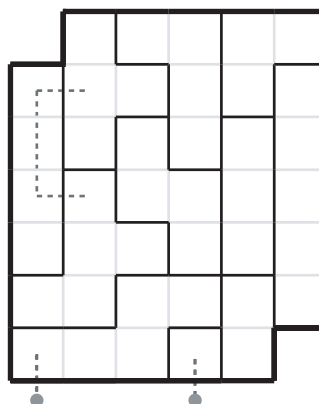
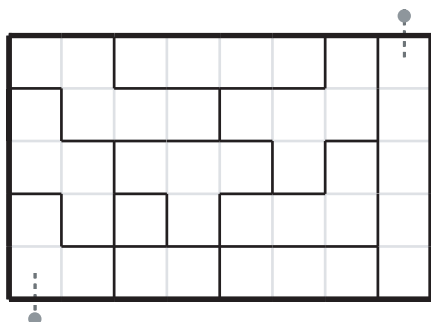
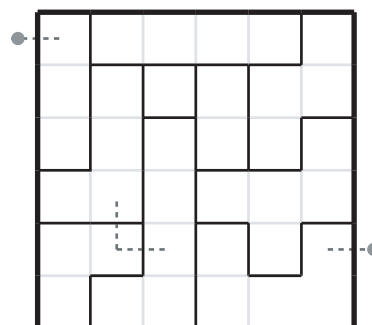
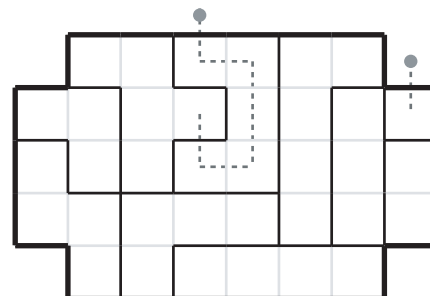
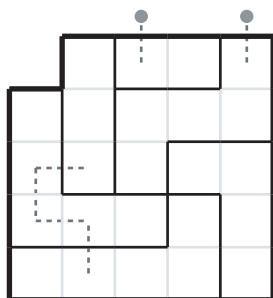
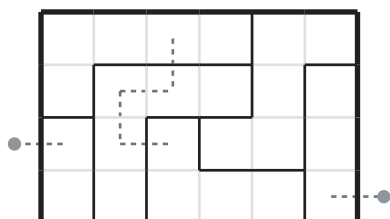
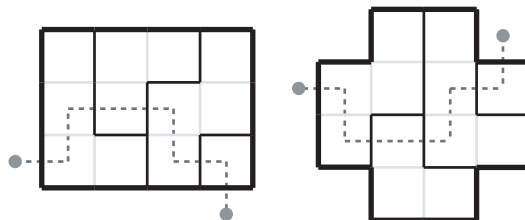
An **arithmetic series** is a series of numbers, strictly increasing or decreasing, with the difference between two adjacent numbers being always the same (and being not equal to 0).



>> Tiktaka

Find a path from the entrance to the exit of each grid such that each pair of grids has the same path for each shape.

- > Every path must pass through each shape exactly once.
- > Each grid in the pair consists of the same set of shapes. The route through each shape must follow an identical path in both grids.
- > Shapes, and therefore their paths, may be rotated or reflected between a grid and its pair.



46 Sudoku Xtra Community Puzzles

>> Zipline

Place the numbers 1 to 24 into the empty squares in the grid.

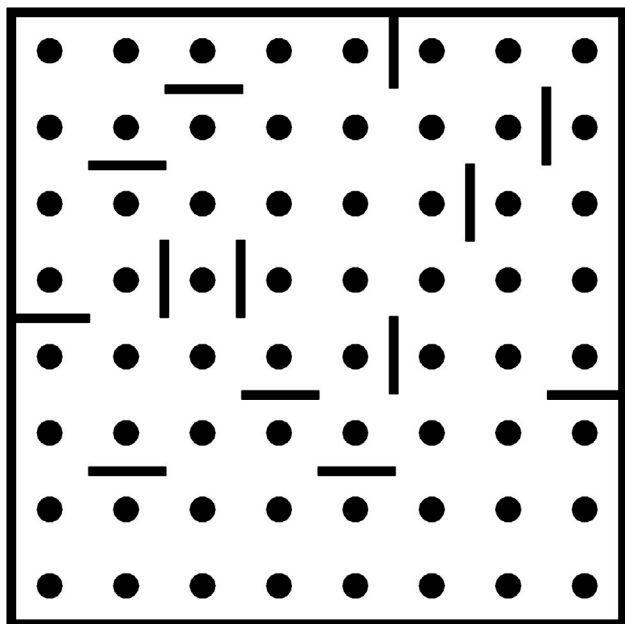
- > Each even number appears on the same row or column as the preceding odd number.
- > Each odd number appears on the same diagonal as the preceding even number.
- > A number in a black square is the sum of the numbers to be entered into the white squares directly bordering it.

As you place the numbers in the grid, you can cross them off in the 'snake', which usefully shows you which pairs of numbers are on the same row or column (+) and which pairs of numbers are on the same diagonal (X).

37			10	2	17
			32		
18	25				
41			31		
	81			43	
				20	

1		7	+	8
+		x		x
2		6		9
x		+		+
3		5		10
+	4	x		x
				11

17	x	16	+	15	x	14	+	13	x	12	+
+											
18	x	19	+	20	x	21	+	22	x	23	+
											24

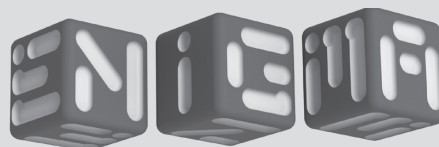


>> Fences

Draw a path that visits every dot exactly once.

- > The path can be made only of horizontal and vertical lines
- > The path cannot cross itself or branch off, and must return to the start to form a complete circuit.
- > The path cannot pass through a solid line

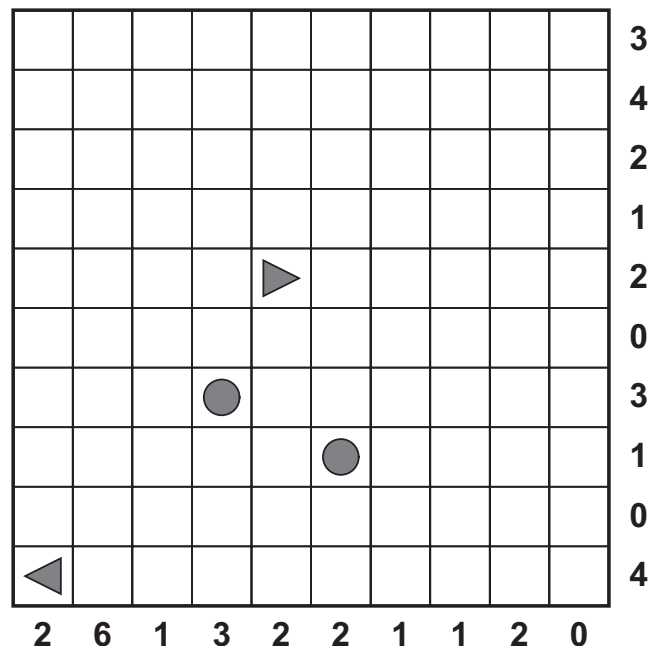
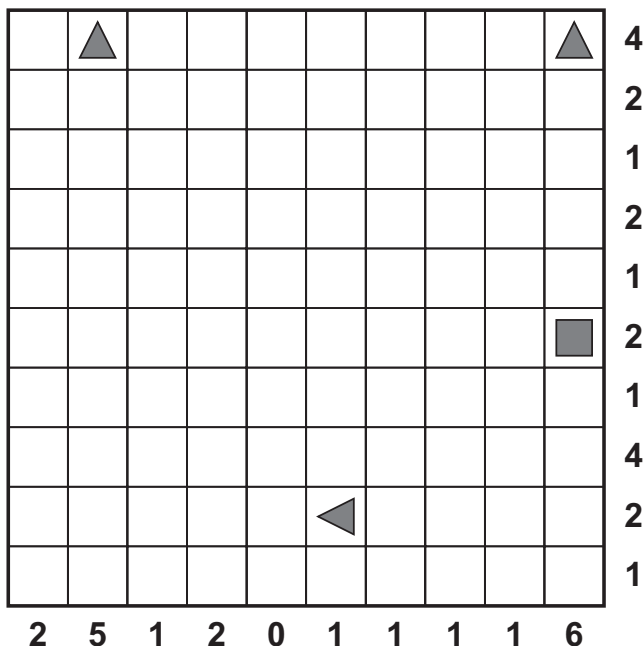
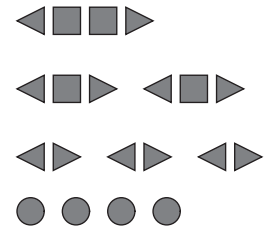
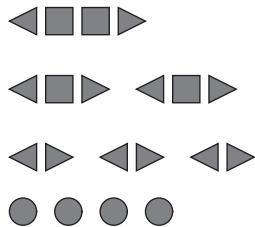
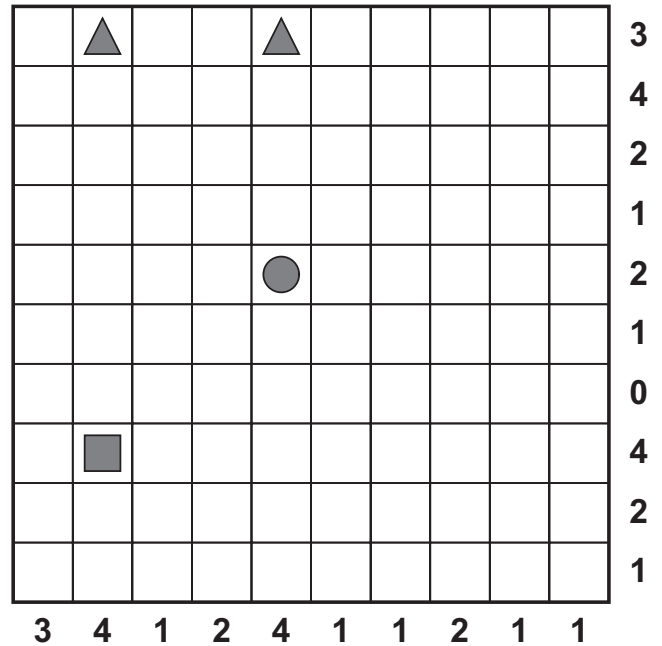
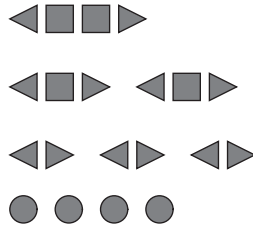
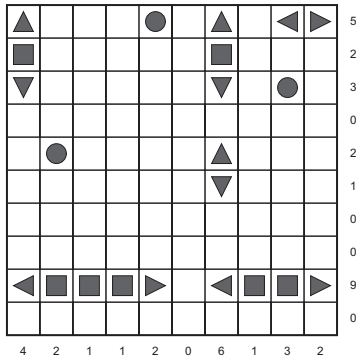
Puzzles by **Elliott Line**, the editor of **Enigma**, the International Puzzle Magazine for members of Mensa.



>> Battleships

Locate the position of each of the listed ships in the grid. Ships are horizontal or vertical only.

- > Numbers around the edge tell you the number of ship segments in each row and column.
- > Ships are surrounded on all sides by water (empty squares), including diagonally.



48 Sudoku Xtra Community Puzzles

>> Four Squared +1 xN

Place one of each number 1 through 16 into the grid (1-9 in the example) such that the product of each row matches the product given for that row.

> Squares marked with an inner square (☐) must contain a number equal to a perfect square (that is, 1, 4, 9 or 16 in these puzzles).

> In this set of Four Squared puzzles, an X is placed between two cells in **all** cases where an adjacent cell is an integer multiple of its neighbour, except in the case of the cell containing '1'.

> Additionally, **all** adjacent cells that differ by only 1 have a circled 1 between them.

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

$2 \times 2 \times 2 \times 3 \times 3$

$2 \times 3 \times 5 \times 7$

$2 \times 2 \times 3$

	☐	X	☐
1	1		
	1	X	
1	X		
1	☐	☐	

$2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3$

$2 \times 2 \times 3 \times 3 \times 5 \times 5 \times 11$

$2 \times 2 \times 7 \times 7 \times 13$

$2 \times 2 \times 3 \times 3 \times 3 \times 5$

☐			☐
1		1	
	☐		
	☐		1
	X		1
			1

$2 \times 2 \times 3 \times 3 \times 3 \times 5 \times 7$

$2 \times 2 \times 2 \times 2 \times 2 \times 5 \times 7$

$2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 11$

$2 \times 2 \times 2 \times 3 \times 5 \times 13$

		☐	
X			1
	☐		1
	☐	X	
X	X		X
	X		☐

$2 \times 2 \times 2 \times 3 \times 3 \times 3 \times 5$

$2 \times 2 \times 2 \times 2 \times 2 \times 5 \times 5 \times 11$

$2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 3$

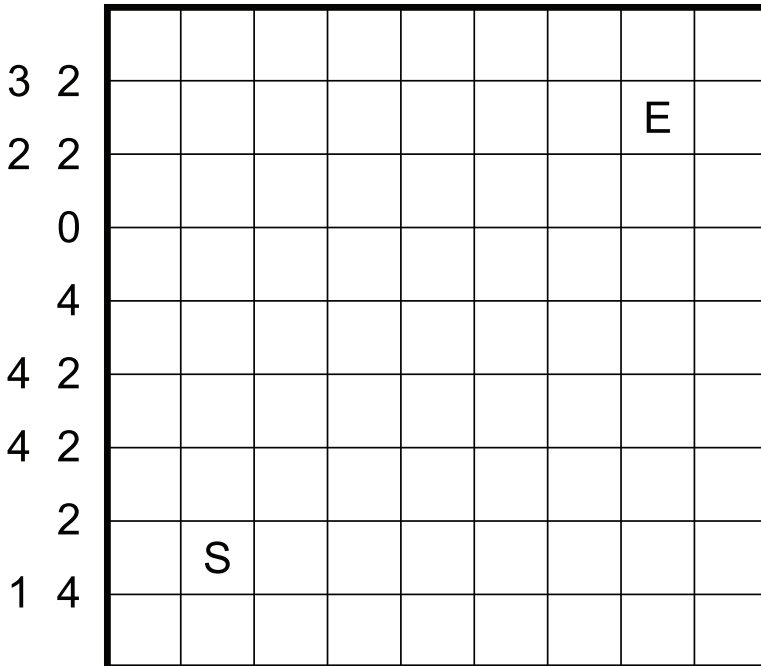
$2 \times 2 \times 2 \times 7 \times 7 \times 13$

Four Squared puzzles were created by **Debbie Rahav**, who also creates other variants on Four Squared and pentomino-based puzzles as well.

Sudoku Xtra 49

Community Puzzles

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

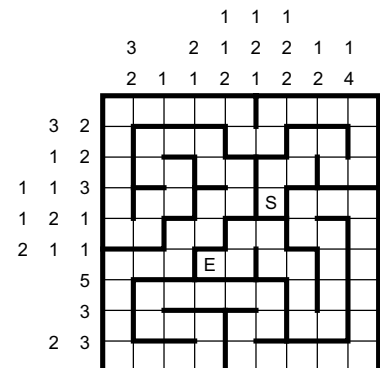
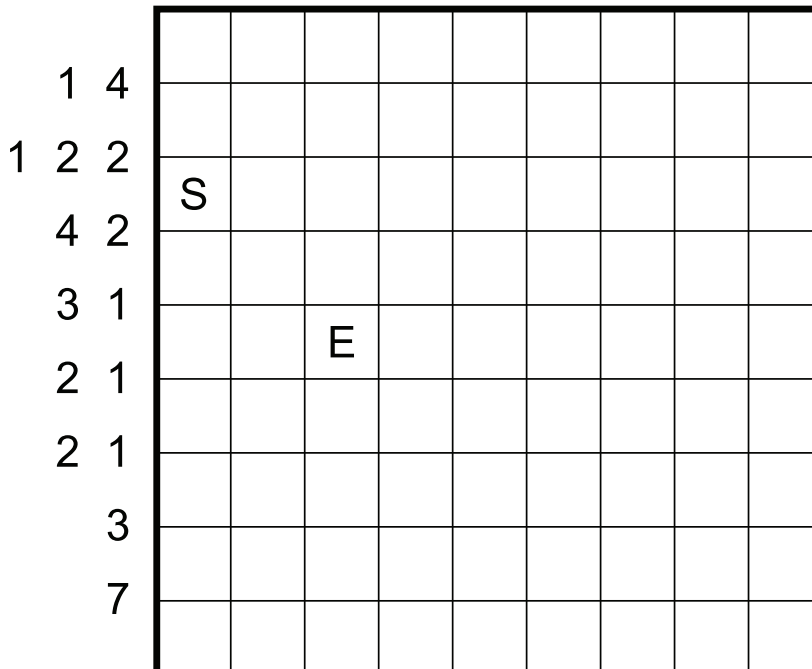


>> Labyrinth

Draw solid walls along existing lines in the grid to form a walled maze with a single path that runs from the 'S' to the 'E'.

- > There must be no dead ends or sealed-off areas, and all squares must be used. The path must be one square wide at all points.
- > Clues outside the grid provide Hanjie-style clues revealing the length of each continuous run of solid wall segments. See page 37 for details.
- > For a full tutorial see www.naughtynathan.co.uk/?p=317

1 1 1 1
1 1 4 4 1 3 3 7



Created by **Nathan Roberts:**
www.naughtynathan.co.uk

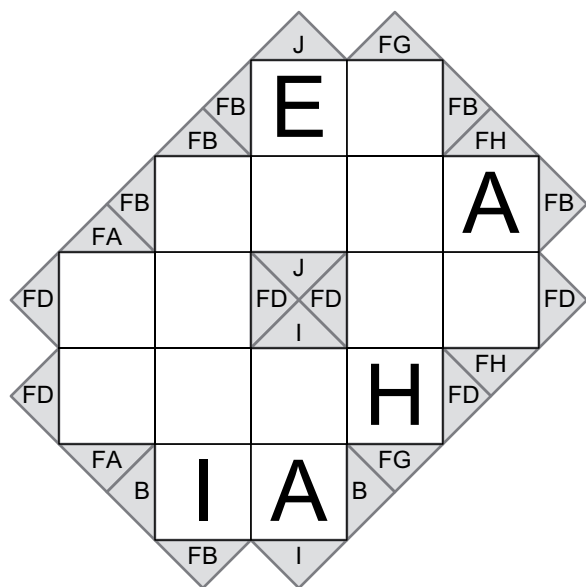
50 Sudoku Xtra Community Puzzles

>> 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.



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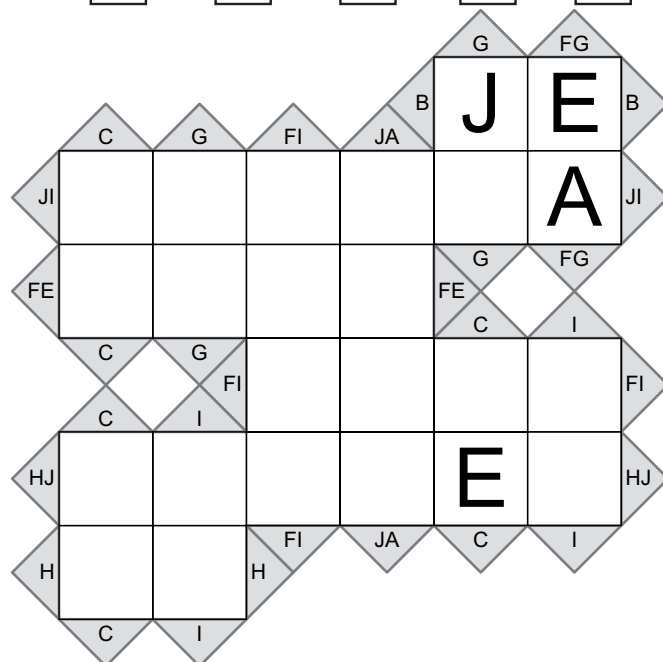
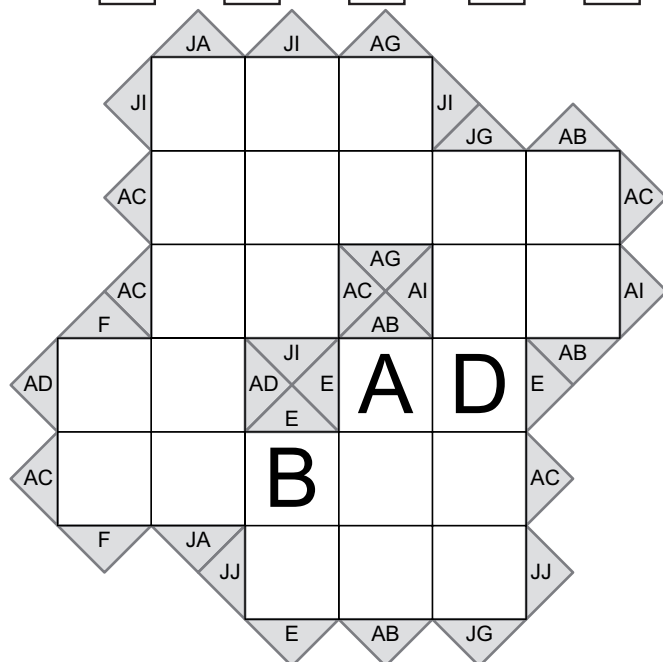
A B C D E
F G H I J

Puzzles by **Jim Bumgardner** of
Krazydad.com.

For lots more puzzles, visit
krazydad.com/puzzles

A B C D E
F G H I J

A B C D E
F G H I J



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>> Altair Slitherlink

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

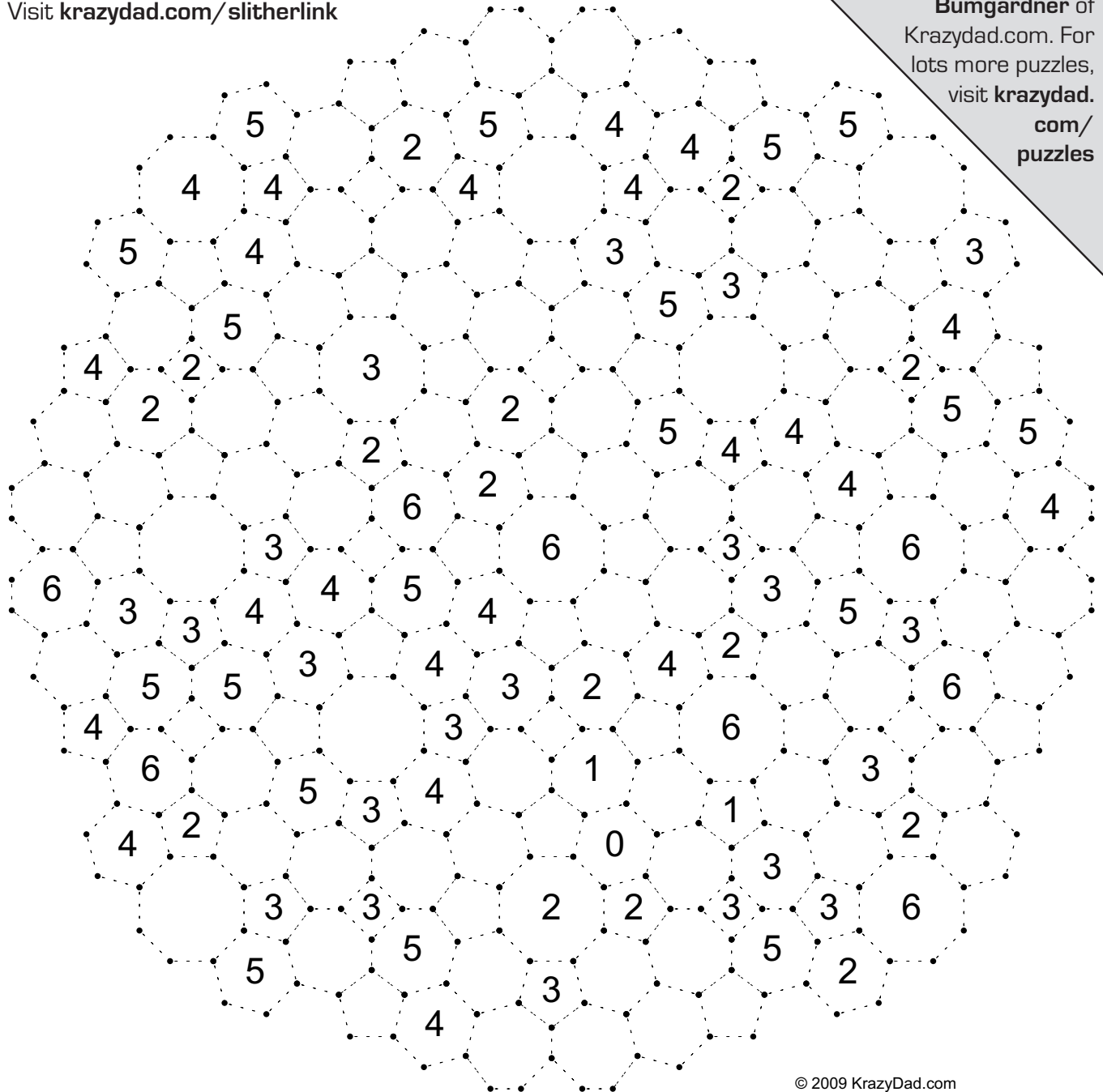
> The path does not cross itself, branch, or touch itself at corners. The numbers indicate how many line segments surround each cell. Empty cells may be surrounded by any number of line segments.

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. Bourgojn.

Need some solving help?

Visit krazydad.com/slitherlink

Puzzle by **Jim Bumgardner** of Krazydad.com. For lots more puzzles, visit krazydad.com/puzzles



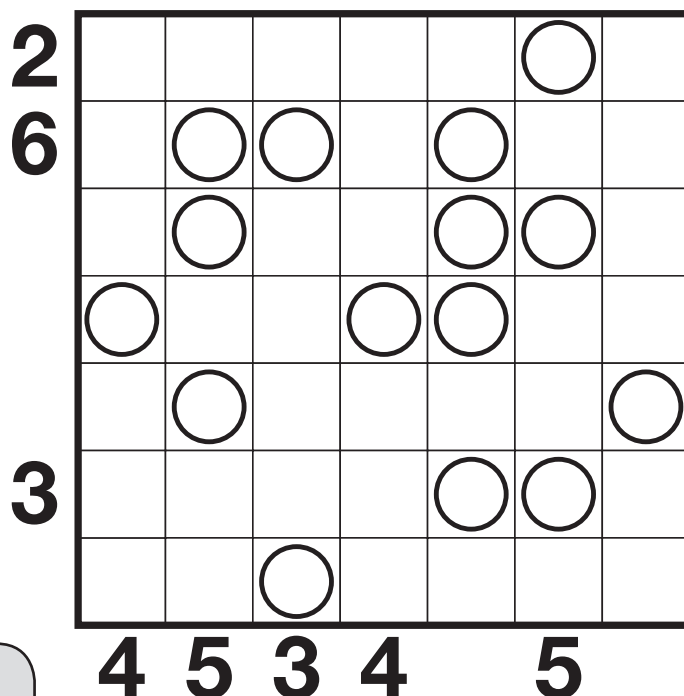
© 2009 KrazyDad.com

52 Sudoku Xtra Community Puzzles

>> Salesman

Draw a single loop which moves horizontally or vertically from square to square and visits every single 'office' (circle).

- > No square may be visited more than once.
- > Numbers on rows/columns indicate the number of squares in that row/column which are visited by the loop.



These puzzles were created by **Anuraag Sahay**, who also publishes his puzzles on his blog at anuragthefirst.blogspot.com

>> Heytori

This puzzle combines the rules of Heyawake with those of Hitori. Shade some squares so that the following rules are obeyed:

- > No shaded squares can touch in either a horizontal or vertical direction.
- > All unshaded squares must form a single continuous area.
- > The interior of no more than two bold-rectangle rooms can be visible from any unshaded square, looking up/down/left/right, including that square itself. Shaded squares block the view.
- > There can be no more than one of any number remaining unshaded in a single row or column, as in Hitori.

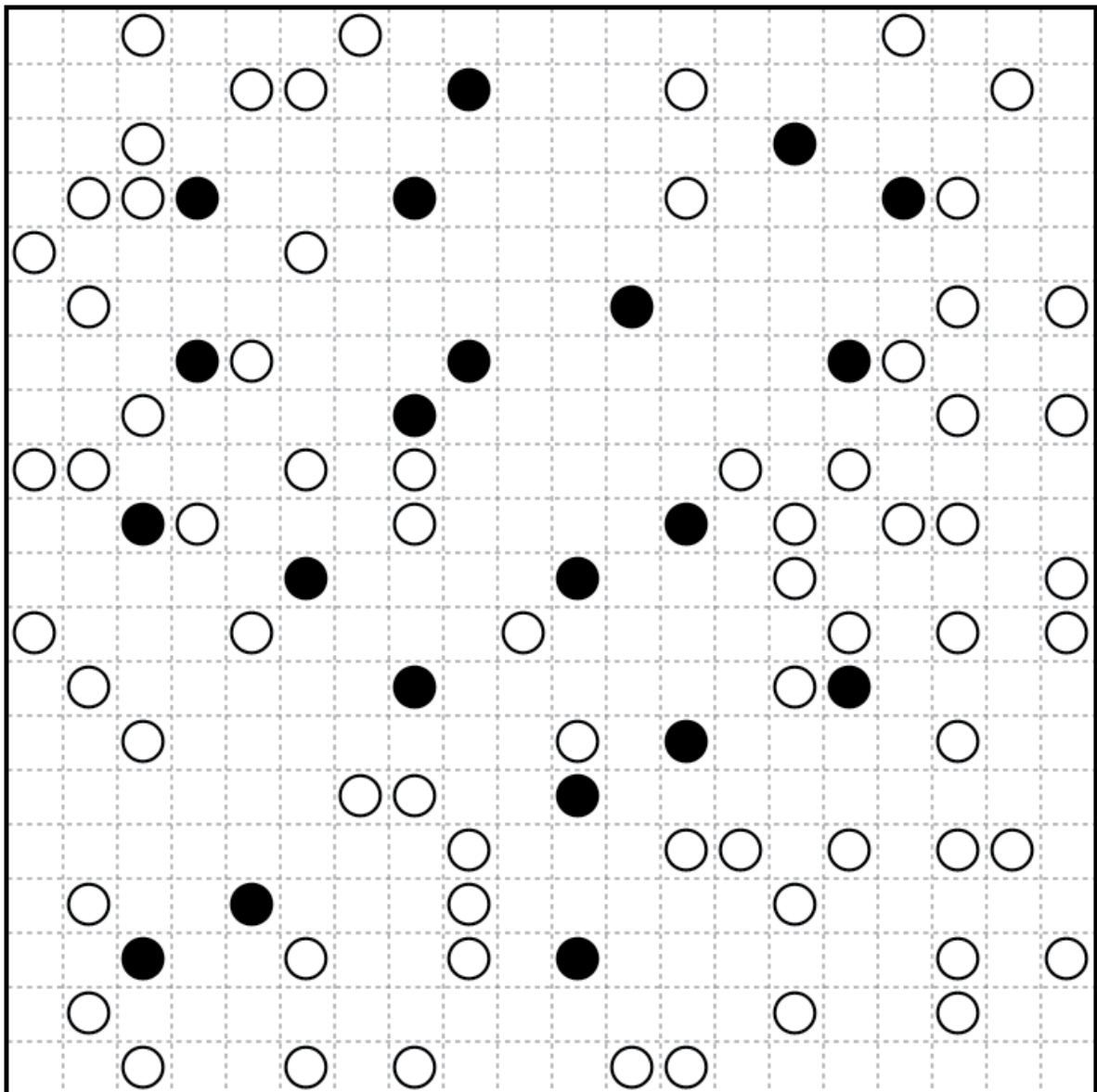
2				2		5			1
	3	5			5		4	3	
	1							1	
		5			3	5			1
			4						
4	1	5	4		3	3		5	
			2		2				
	4						4	3	4
	3	5	2	1			1	5	
					3	1			1

>> Restrictive Masyu

Masyu with a modified rule for the shaded circles.

- > Draw a single loop that passes through the centre of every circle.
- > On a shaded circle you must turn 90 degrees and continue straight for **at least TWO squares** each side.
- > On an unshaded circle you must continue straight but then you must turn 90 degrees on one or both of the adjacent squares (as usual).
- > The loop cannot visit a square more than once.

This puzzle was created by
Anuraag Sahay, who also
publishes his puzzles on his blog
at anuragthefirst.blogspot.com



54 Sudoku Xtra Community Puzzles

>> Heyawake

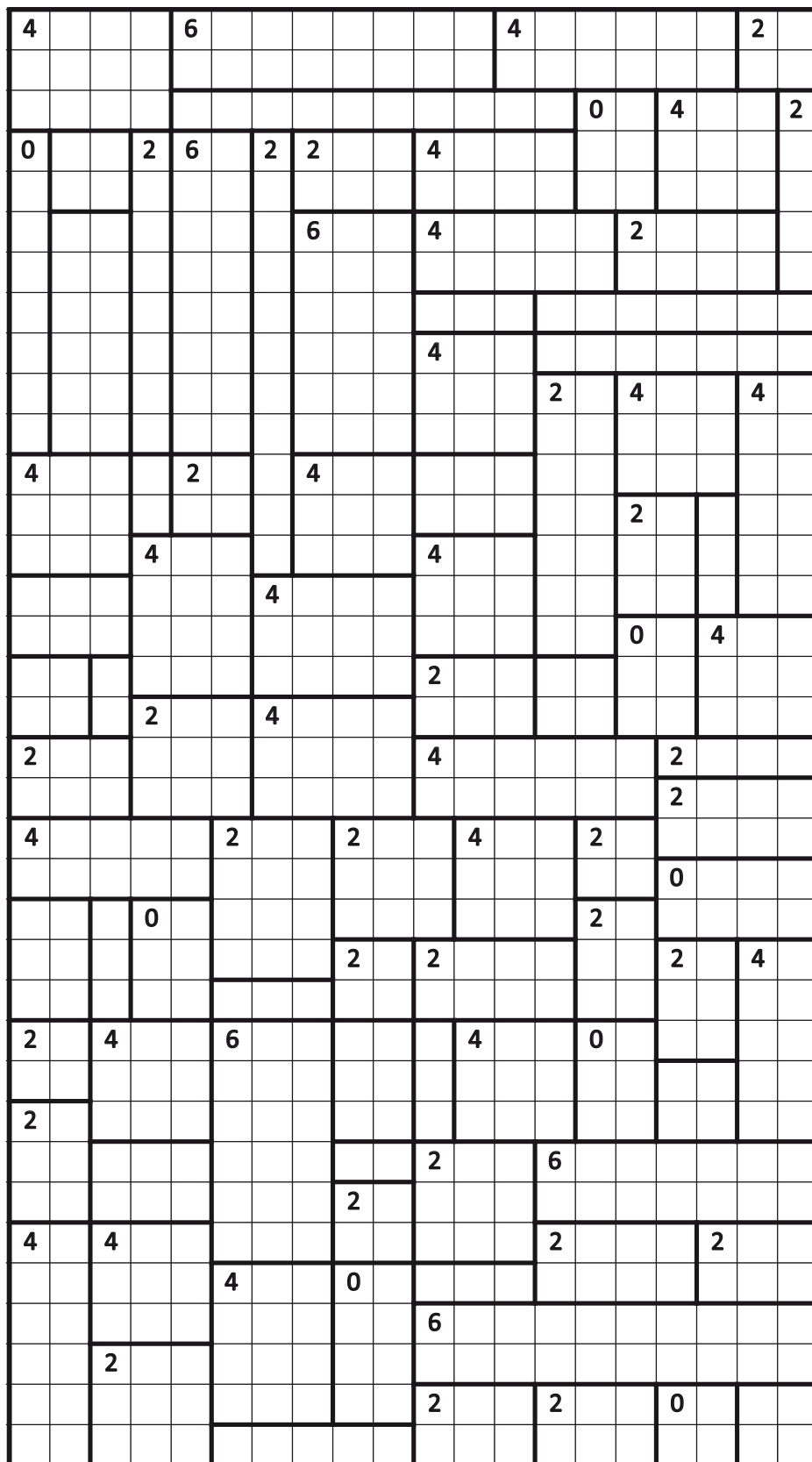
Shade in squares as indicated by the numbers and the bold-lined rooms.

- > No shaded squares can touch in either a horizontal or vertical direction.
- > All unshaded squares must form a single continuous area.
- > The interior of no more than two rooms can be visible from any unshaded square, looking up/ down/left/right, including that square itself. Shaded squares block the view.
- > Any rooms with a number in must contain precisely that many shaded squares. Rooms without numbers can contain any quantity of shaded squares (including zero).

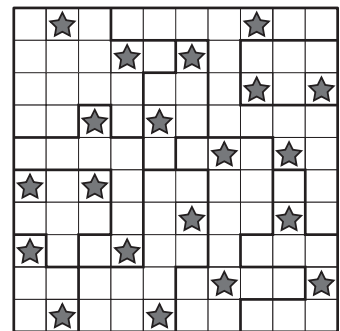
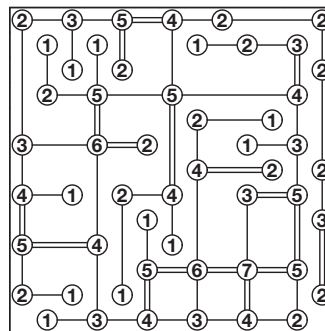
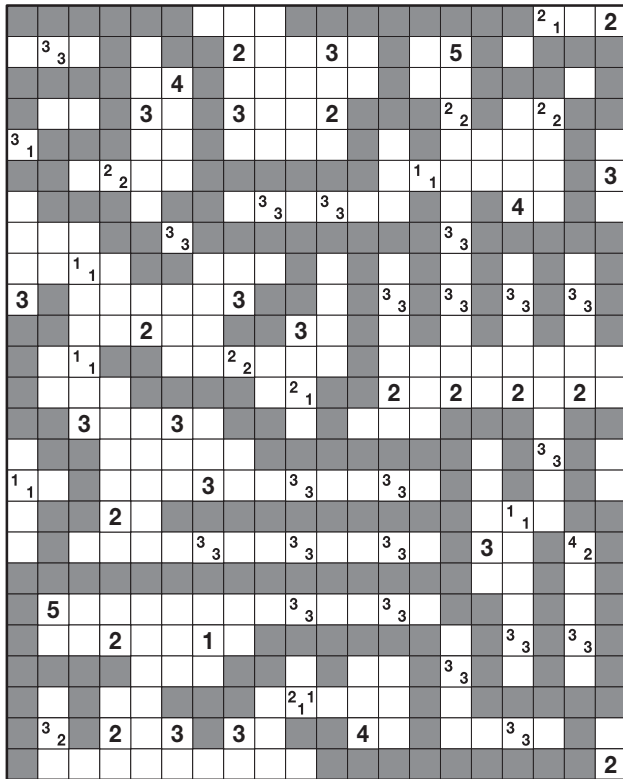


Created by **Tom Collyer**, the official Times UK Sudoku Champion for both 2007 and 2009.

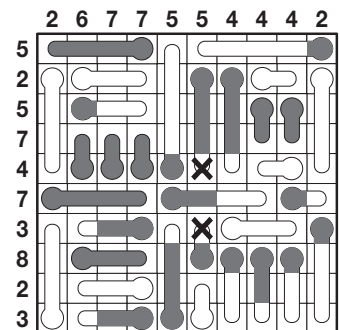
Visit his blog at <http://blogs.warwick.ac.uk/tcollyer> for lots more original puzzles, plus puzzle news!



>> Solutions for pages 1 to 5



For more puzzles
check out
www.puzzlemix.com



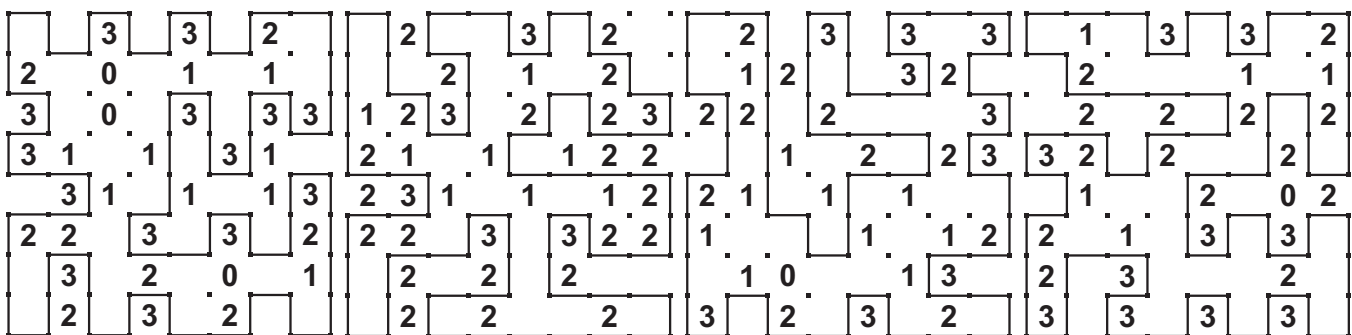
2	3	6	1	5	4
3	1	4	5	6	2
5	2	1	6	4	3
6	5	3	4	2	1
4	6	2	3	1	5
1	4	5	2	3	6

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

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

2	8	0	4	5	7	6	1	3
8	5	6	1	3	7	2	4	
6	7	1	3	4	5	8	2	
3	4	5	8	6	2	7	1	
5	6	2	4	8	1	3	7	
4	3	7	2	1	8	6	5	
7	1	3	6	2	4	5	8	
1	2	8	7	5	3	4	6	

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



If you're enjoying the variety of puzzles in each issue of **Sudoku Xtra** then why not save a bit of money by signing up for a subscription on www.SudokuXtra.com. And that way you'll be automatically emailed each new issue, fresh off the virtual press!

>> Solutions for pages 6 to 11

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

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

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

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

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

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

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

6	2	6	5	6	7	4	4
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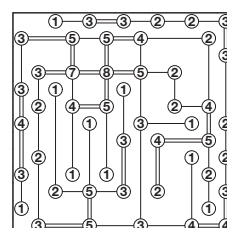
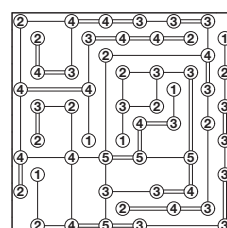
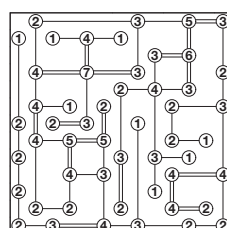
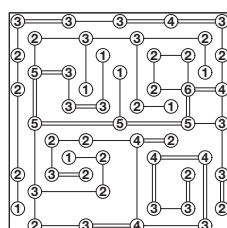
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8	3	7	6	4	9	2	1	5
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6	9	2	1	5	4	7	8	3
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8	7	9	3	5	6	1	2	4
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>> Solutions for pages 12 to 15

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

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

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

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

6			2			3		
				3				
		1			1	2		
						5		
		1			2			
				0				

2		0						
3		4						
		5						
2		1			2			

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

	16	14	18		3	17		
23	9	6	8		4	1	3	
24	7	8	9		6	2	1	10
				3				11
7				1	2		9	6
4	1	3		16		3	6	4
15				18		1	3	
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	4	8	9		3	1	2	6
								3
				3	1	2		6
							3	2
				4	3	1		7
							1	4
								2

			16	24		11	38	
23			9	7		9	7	
4			16					7
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			17			6	2	3
			1	2		9	8	
			17			19	8	2
			9	8		34	9	7
			3	6		15	9	5
			15			23	3	6
			7	6		5	9	8
			35			17		9
			8	9		7	3	
			24			10		7
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			23			16		1
			9	7		11		8
								3

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				13		17		
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				4		3	5	7
				12		14		7
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				8		8	5	
				31		3	8	9
				7		6	1	
				5		2	3	
				10		2	3	
				4		3	1	
				17		4	9	
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>> Solutions for pages 16 to 20

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9	6	1	3	2	8	7	5	4

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3	13	12	11	22	21	2	1	23
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11	12	3	22	1	2	23	21	13
13	2	23	21	3	11	12	22	1

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

Play Hanjie, Consecutive Sudoku, Odd Pair Sudoku, Killer Sudoku, Kakuro, Slitherlink, Jigsaw, Killer Pro, Futoshiki and more at:

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

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	1	5		5	9	4	7	6	8	3	1	2	
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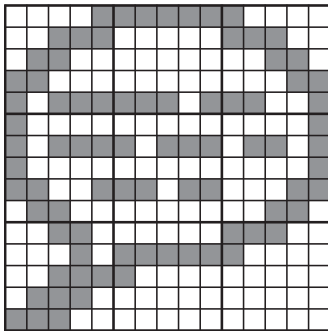
>> Solutions for pages 21 to 24

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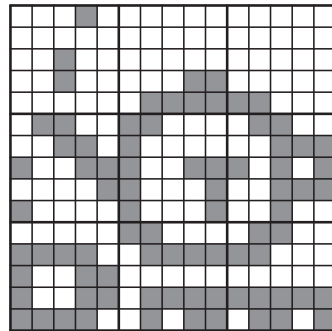
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	1	3	4	2	2	4	3	3	
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2	7	4	6	1	5	8	3	2	3
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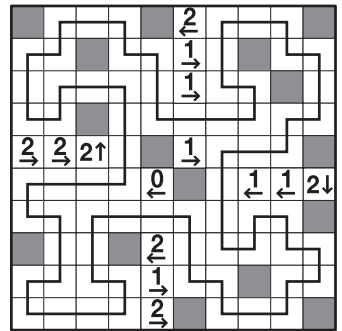
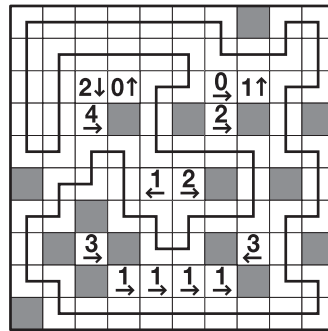
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2	2	9	4	7	1	6	3	8	5	3
3	4	5	9	6	7	8	1	2	3	3
2	7	1	2	5	9	3	6	4	8	2
3	3	8	6	4	2	1	9	5	7	2
3	6	3	1	2	4	5	8	7	9	1
1	9	2	8	3	6	7	5	1	4	5
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	2	3	3	7	2	1	4	4	2	



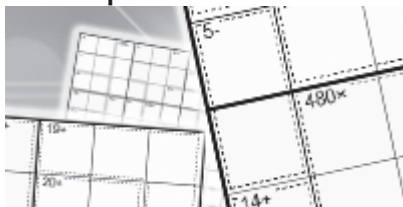
Speech bubble



Tea pot



puzzlemix.com



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

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

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

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

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

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

60 Sudoku Xtra

>> Solutions for pages 25 to 28

3	1	8	2	5	9	6	4	7
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4	3	7	9	1	8	5	2	6
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3	4	1	8	2	6	5	7	9
7	2	6	5	1	9	3	8	4
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-2	1	3	2	5	4	-3	-1	-4
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>> Solutions for pages 29 to 32

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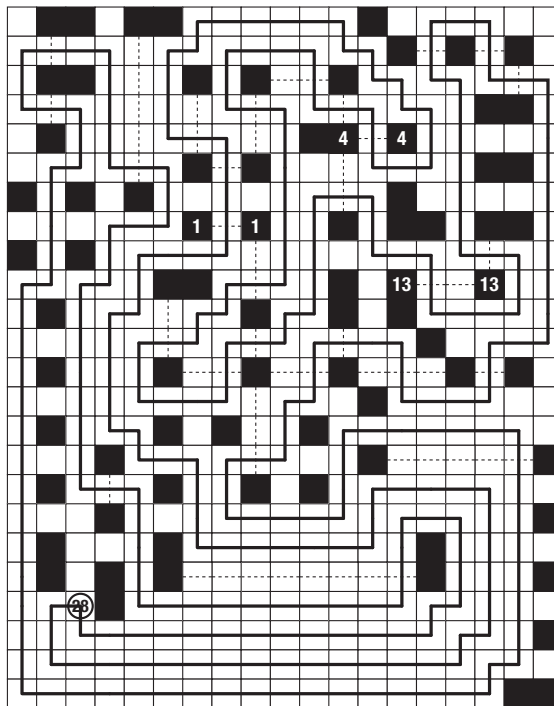
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>> Solutions for pages 33 to 37

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						2		3
4								
				1		6		

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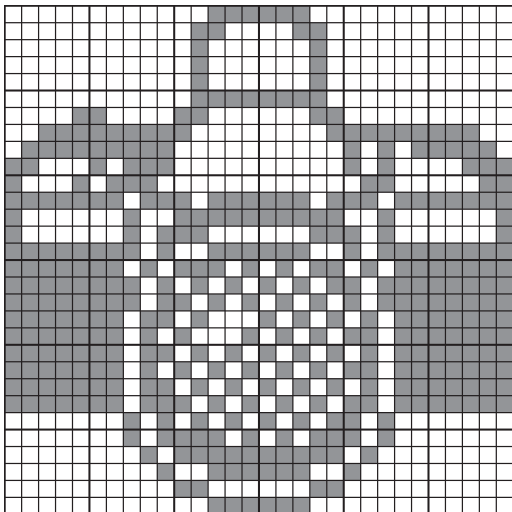
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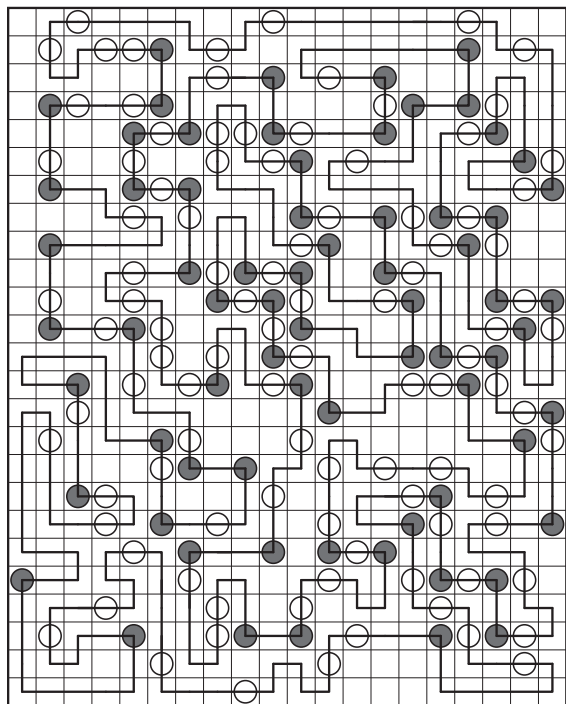
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Camera with flash



puzzlemix.com



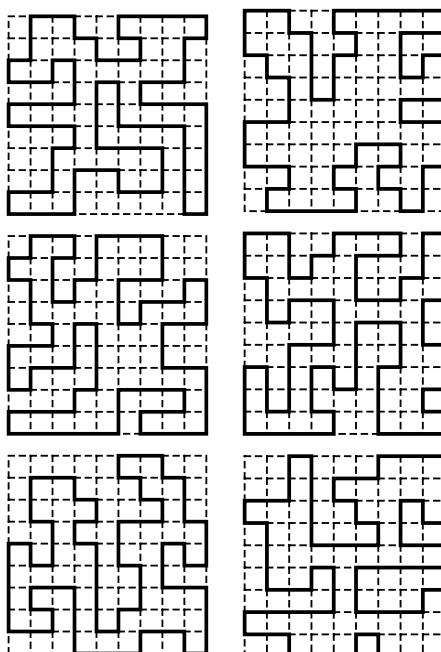
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14+	2	4	8	1	5	6	7	3

If you'd like to see your own puzzles in the Community Puzzles section then please get in touch with the section editor, David Millar, at david@sudokuxtra.com

Thanks very much to this issue's contributors

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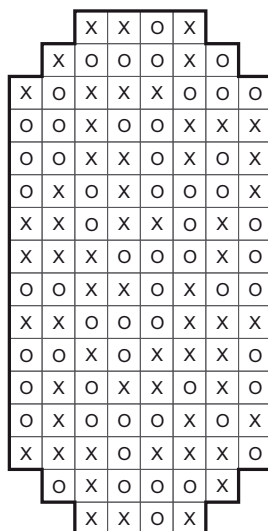
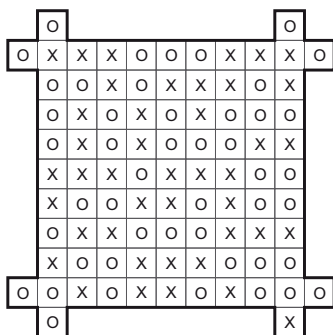
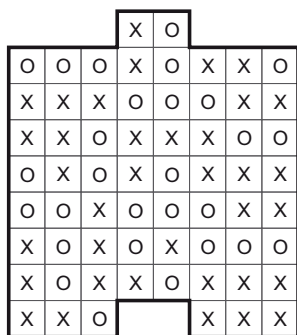


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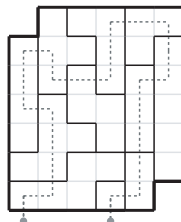
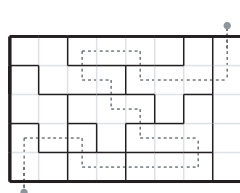
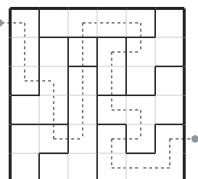
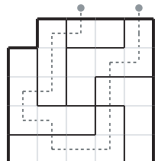
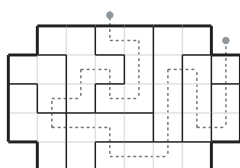
64 Sudoku Xtra

>> Solutions for pages 43 to 48

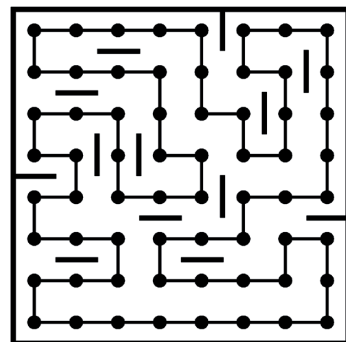


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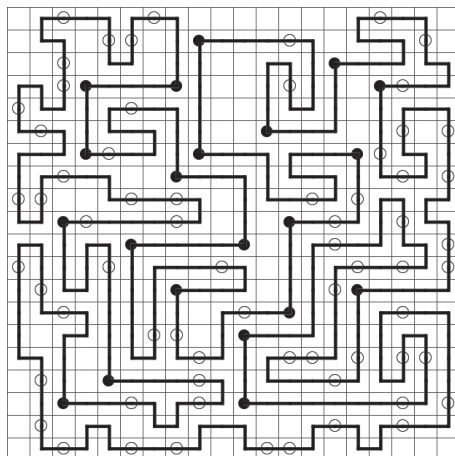
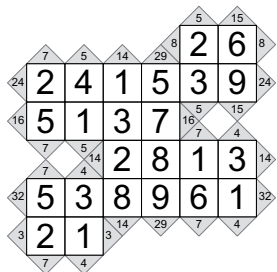
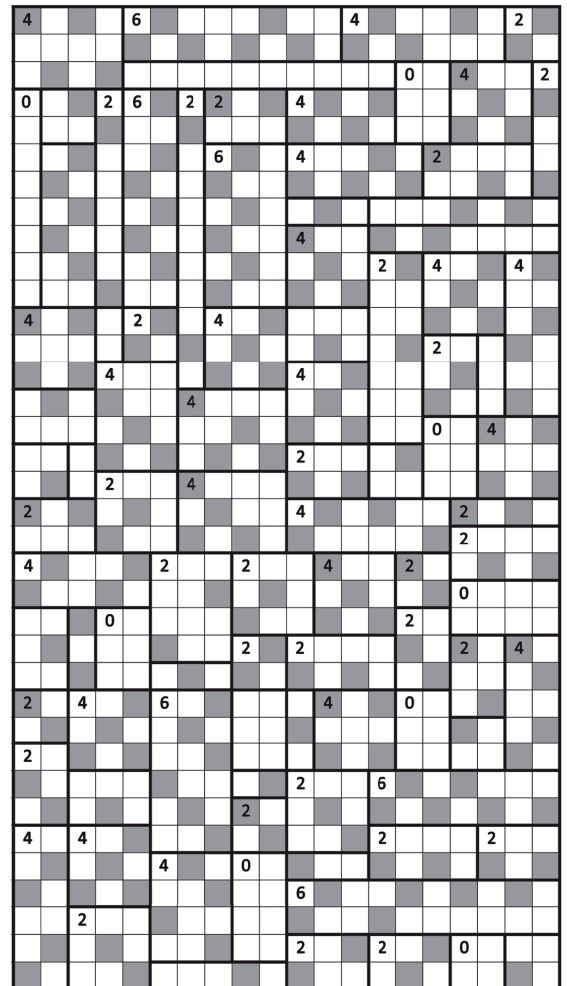
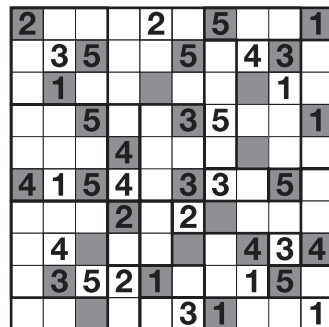
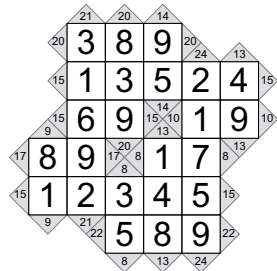
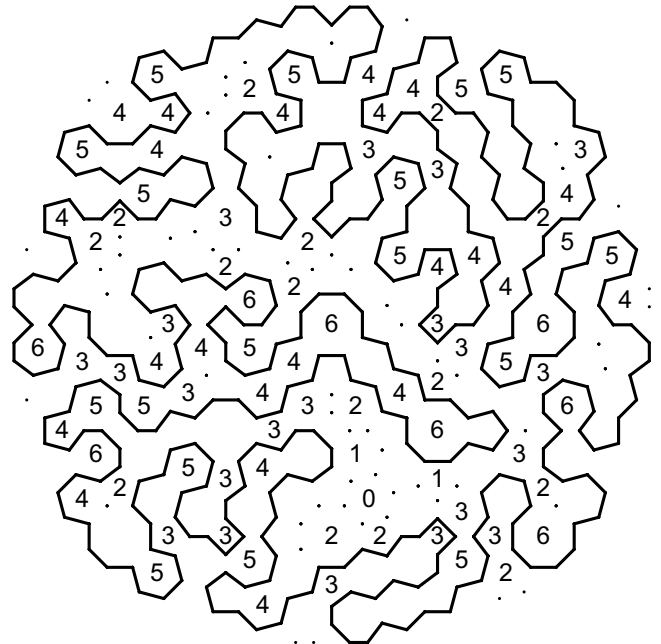
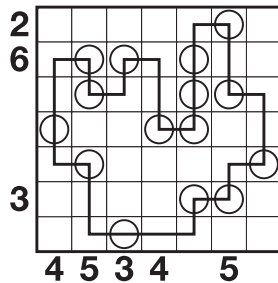
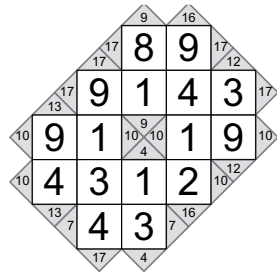
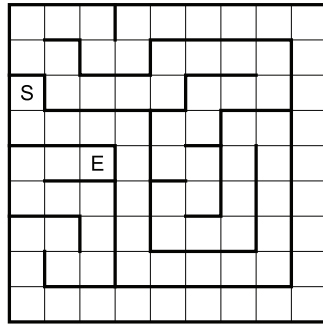
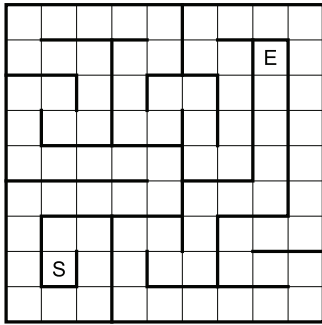
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3	4	1	2	4	1	1	1	1	1

12	16	8	1
11	15	6	10
13	14	2	7
3	4	9	5

9	7	15	4
8	1	14	10
3	16	6	11
5	2	13	12

15	6	1	12
5	16	10	11
2	9	3	8
14	7	13	4

>> Solutions for pages 49 to 54



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