

# Sudoku Xtra™

Issue 8 - July 2010

>> The Logic Puzzle Brain Workout

All main section puzzles by Dr Gareth Moore

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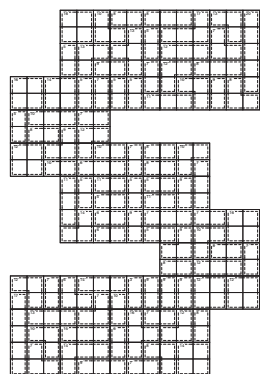


## >> Samurai Sudoku 6x6: "S" Instructions on page 2

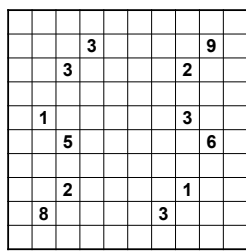
						5																																			
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6						1						5						2						1						5											
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5						3												3						5																	
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						2						6												4																	
												4						1																							
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																		3						2						3											
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3						2												2						6																	
						5												5												4											
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3						1						6						1						3						2											
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Also in issue 8:

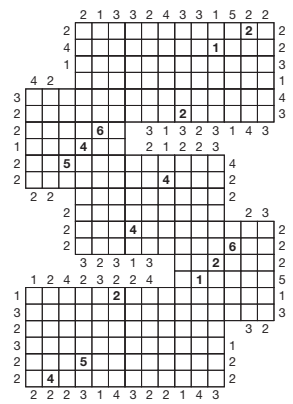
> Killer S



> Nurikabe S



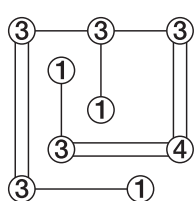
> Skyscraper S



# 2 Sudoku Xtra

Welcome to **Sudoku Xtra** issue 8, packed with a wider range of Japanese puzzles and Sudoku variants than any other magazine outside Japan! There are 116 puzzles of over 50 different types, and you'd need to complete nearly 4 a day in order to get them all done in time for the next issue! There's no better value than Sudoku Xtra, no matter how you buy it - download and self-print, or pre-printed from Amazon or Lulu.

New in this issue are some exciting new **Community Puzzles** contributors, including not just the two-time Times UK Sudoku Champion but also one of the most prolific online puzzle creators of all. It's fantastic to have the chance to feature their work - check out their websites for even more! And don't forget the Sudoku Xtra site itself at [www.SudokuXtra.com](http://www.SudokuXtra.com) for the latest news on the discussion forum, plus the chance to chat about the puzzles (and more!) with other readers. Also please do feel free to email me your thoughts and comments to [Gareth@SudokuXtra.com](mailto:Gareth@SudokuXtra.com), or contribute to future Community Puzzles - all are welcome!



## >> Hashi

Join circled numbers with horizontal or vertical lines, such that each number has as many lines connected to it as specified by its value. No lines may cross, and no more than two lines may join any pair of numbers. The finished layout must allow you to travel from any number to any other number just by following one or more lines.

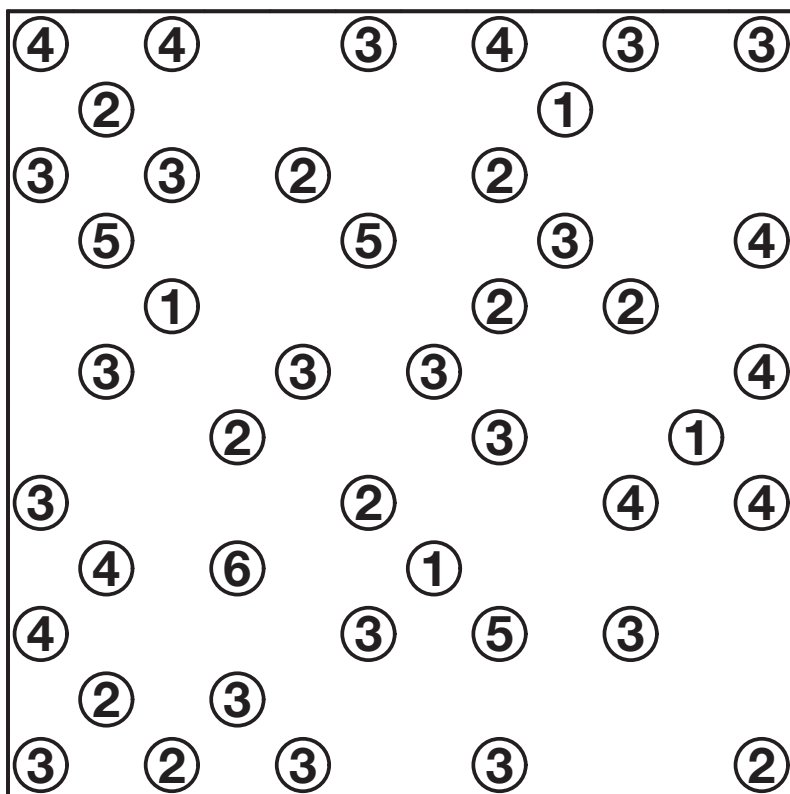
## >> Cover Puzzle

## >> Samurai Sudoku 6x6

> Place 1 to 6 into each bold-line delimited row, column and box of 6 squares.

> Note that some vertical columns span across between the 10 underlying 6x6 Sudoku grids.

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



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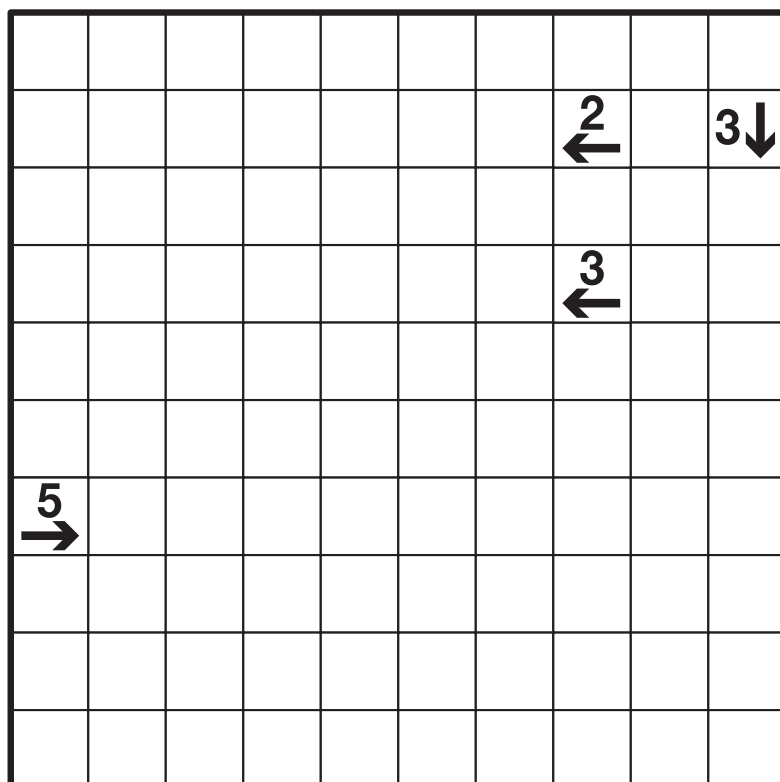
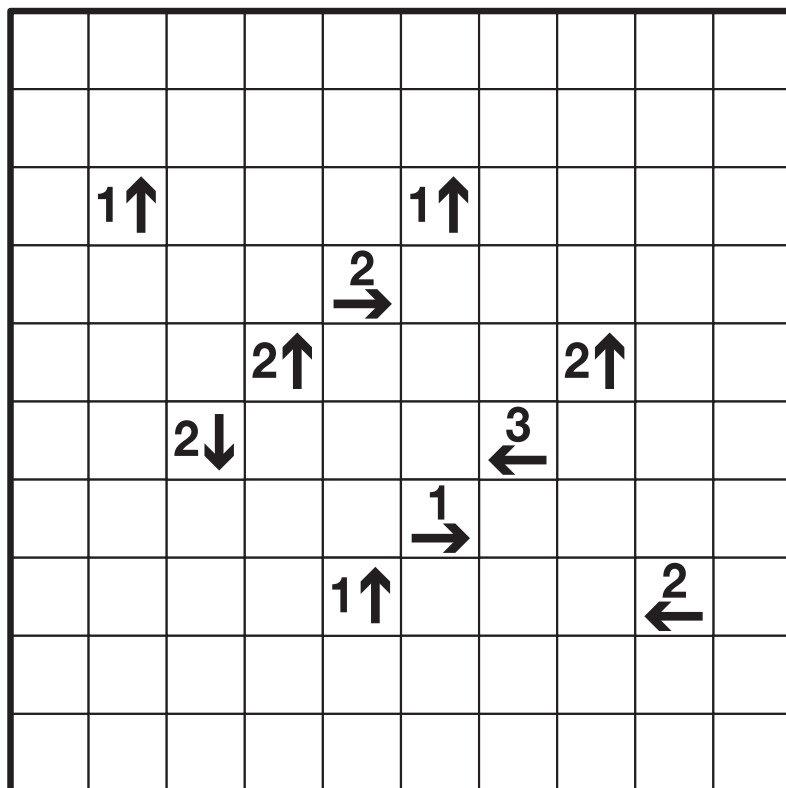
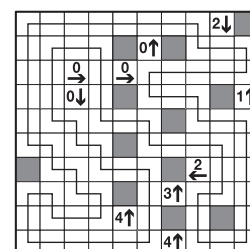
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## >> Yajilin

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.



# 4 Sudoku Xtra

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

## >> Calcudoku

Place the numbers 1 to 6 (or 1 to 8) into each row and column of the grid, whilst 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.

0-			360×		3+
24×		1-			
3+			3-		9+
	15×		2÷		
7+	14+			4×	
			90×		

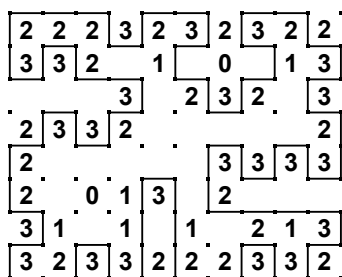
4÷	7+	4+	15+		
			864×		
6×				5×	
20×		288×		3×	
			4+	7+	2÷
14+					

10+		1080×			1-
8+		20×			
12×					14+
	23+		20×		
6÷				2-	
				2-	

56×	5×		3-	10+		4-	
	16+			8×		5÷	
5+		11+		3-	5×		
	16+	11+				1-	
		6+	28×	3-			1-
11+	5-			6×		126×	
			25×				10+
7+		6-			16×		

3×	3-		2-		24×		14+
	56×		9+	15×			
18+		3-		11+			
			18×	9+	4×		490×
	3-				14+		
210×	13+	1-		2-			
		5-			7+		2÷
			14×		11+		

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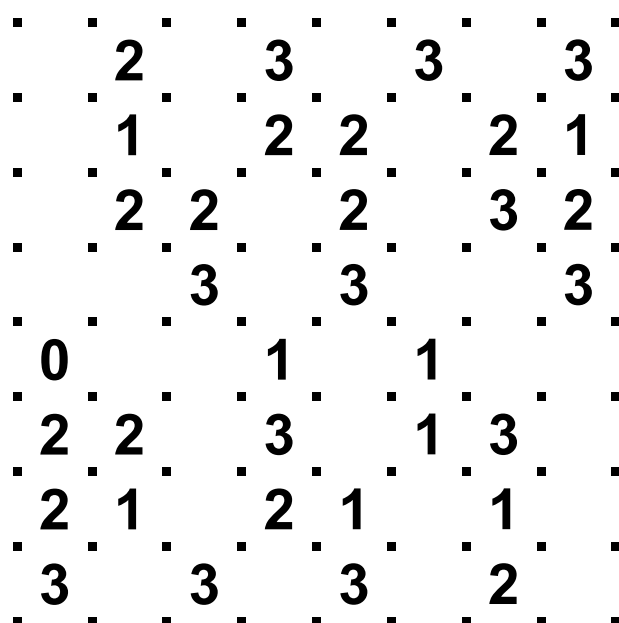
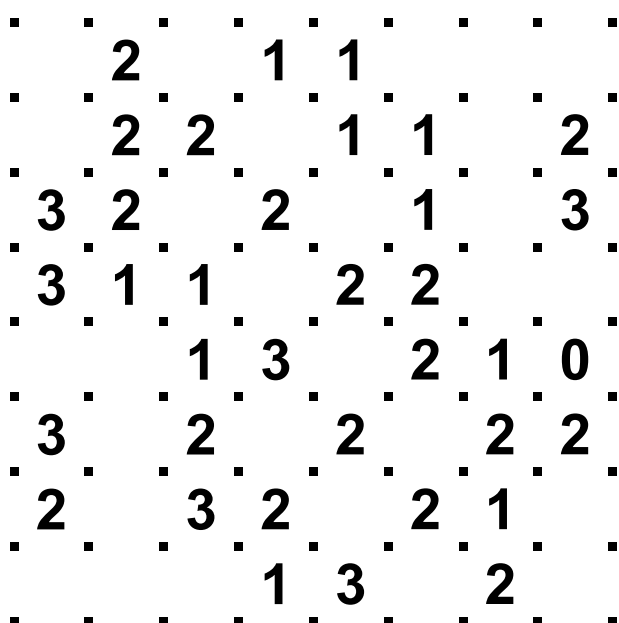
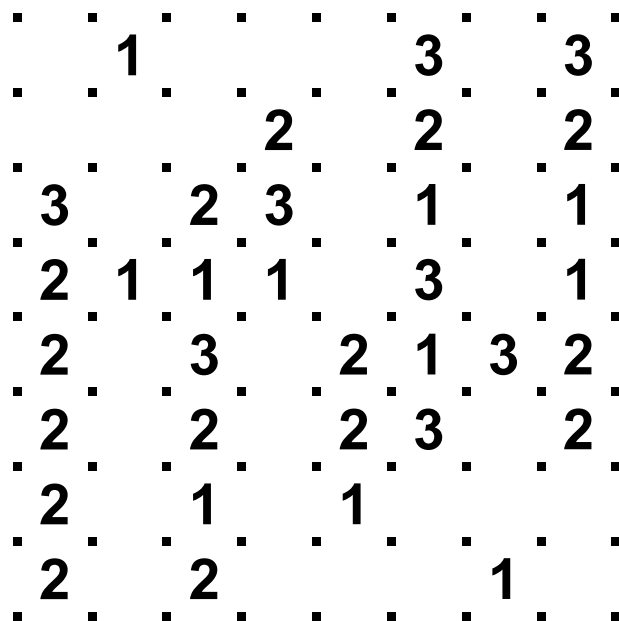
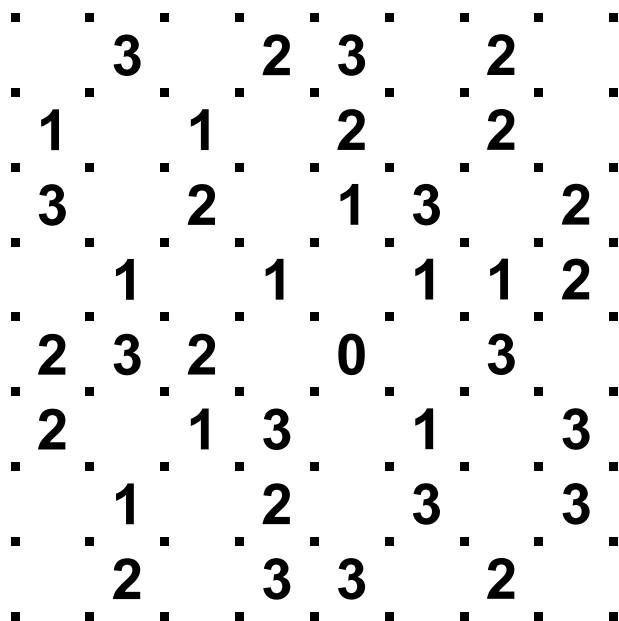


## >> Slitherlink

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

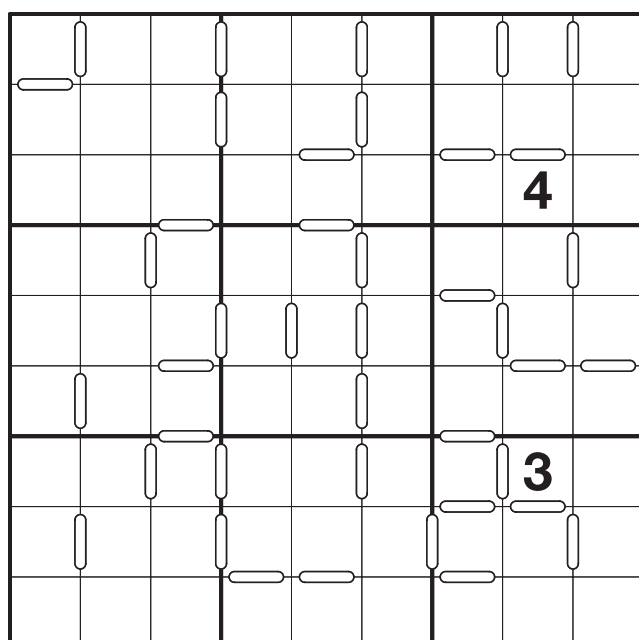
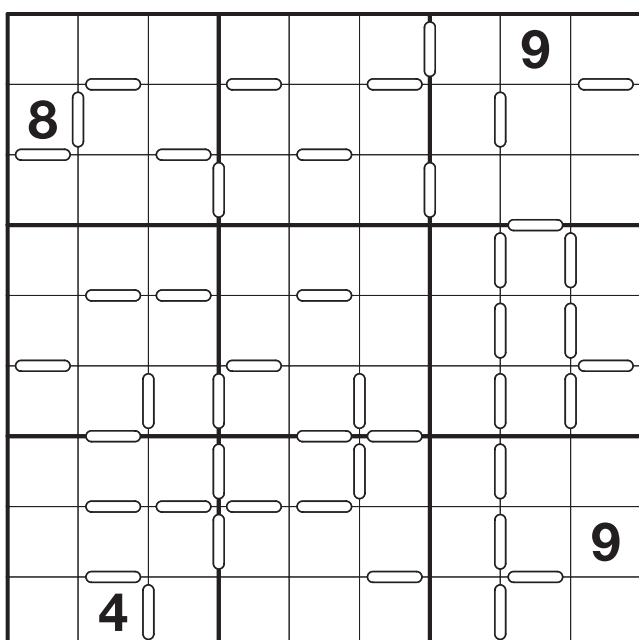
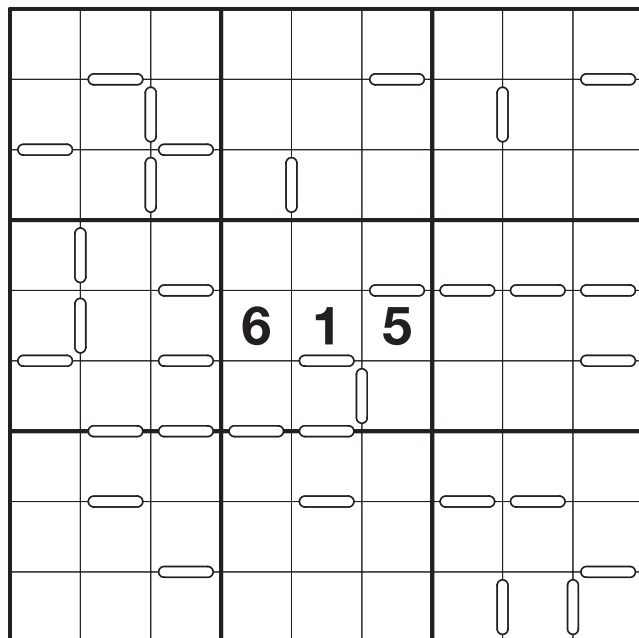
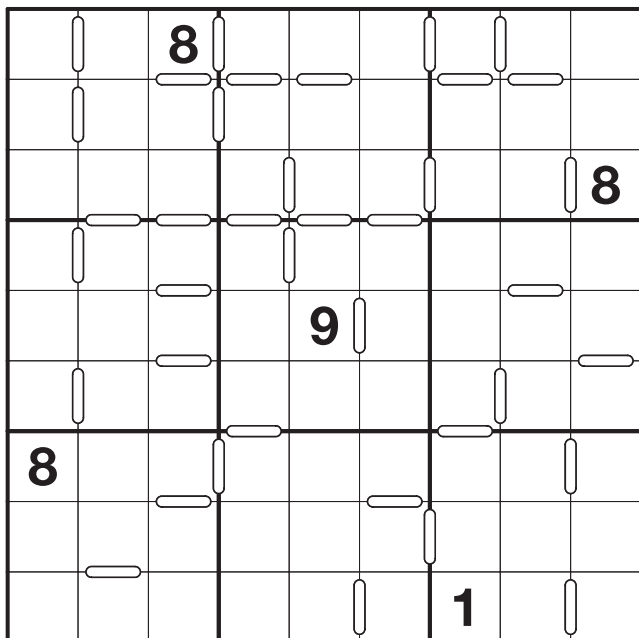
5	3	4	6	2	1	9	8	7
8	7	9	5	3	4	2	1	6
6	2	1	9	7	8	4	5	3
7	1	6	8	4	9	3	2	5
2	4	5	3	1	7	8	6	9
9	8	3	2	6	5	1	7	4
3	9	8	1	5	6	7	4	2
1	6	7	4	9	2	5	3	8
4	5	2	7	8	3	6	9	1

## >> Consecutive Sudoku

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



# 10 Sudoku Xtra

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

## >> Samurai Star Killer Calculudoku

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

> Complete the Killer Calculudoku solid-line cages so that the values in the cage add/multiply/divide or subtract to give the stated total. For subtraction and division start with the largest value, e.g. 2- could be solved with 6-3-1.

> Numbers **can** be repeated within the Killer Calculudoku cages.

9+		10+		5+		5-		22+		7+	
14+		56x								96x	
14+		2÷		2-							
5-		68+		20+		432x		126x		648x	
630x						2-					
672x		28+		15x		6+		1÷		20+	
24x		24x		37+				23+		25+	
										2-	
						4-		1-		480x	
25+				2÷						16+	
				588x		5-				20+	
6+		24+				14+					
				8+		2-		160x		15+	
17+		11+		8-		56x					
5+		6x								13+	

# 16 Sudoku Xtra

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

## >> Killer Sudoku [Prime]

Place 1 to 9 into each row, column and 3x3 box whilst 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 prime numbers: 2, 3, 5, 7, 11, 13, 17, 19, 23.

16			12		23		8		16
10	15					24			
		9		8			10		
	19			31			22		
19		23			13				
								15	
7			13		12			12	
16	12		12		17				
							11		

21	15			14		29			
		9		9				14	
		14	16	9			3		
12	13			15	14				
						17	12	16	
16	6	9			7				
		19						26	
	27		12		12				
			8		11				

8		7	16	21	9		10	10	
13				3	7				
16	10						14		
	7		45			22	8		
18									
11						7		9	
10		15	3	23		13			
6	5			14	9	13			
		14				9			

28	59		41		27				
				52		47			
		36			14			37	
21	10		47			78			
							34	20	
35			12			30			
	37			45			61		
45				33				28	
23									



# 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

## >> Jigsaw Sudoku 6x6 Variety Pack

Place 1 to 6 into each row, column and bold-lined jigsaw shape.

- > Puzzle 1: Regular Jigsaw Sudoku 6x6
- > Puzzle 2: Obey the inequality signs. The arrow points to the smaller no.
- > Puzzle 3: Some 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]

2				1	
			5		
		5			
	3				6

	^				
	<				v
		>	^	^	^
	<				
					v
		>			<

				3	
	1				
			2		
		4			
				1	
6					

1	6				
					5
4					
			5	2	

5					
					2

10x		15x	2÷	5-	
1-			4x		
4÷			9+		1-
	3-		15x	1-	
9+		6+			
6x				3-	

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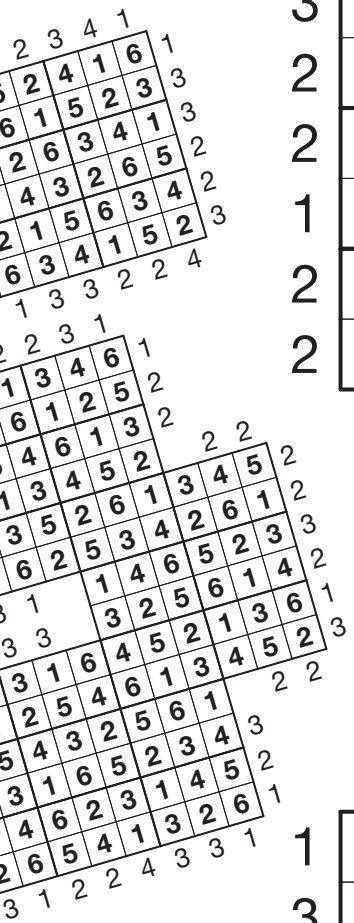
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# 34 Sudoku Xtra

## >> Skyscraper S

Place 1 to 6 into each bold-line delimited row, column and box of 6 squares.

> Skyscraper clues are present - see p.17.



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

2										<b>2</b>		2	
4								<b>1</b>				2	
1												3	
4	2											1	
3												4	
2							<b>2</b>					3	
2				<b>6</b>		3	1	3	2	3	1	4	3
1			<b>4</b>			2	1	2	2	3			
2			<b>5</b>									4	
2							<b>4</b>					2	
2												2	
2												2	
2												2	3
2					<b>4</b>							2	
2											<b>6</b>		
2												2	
3										<b>2</b>			
1	2	4	2	3	2	2	4			<b>1</b>			
1					<b>2</b>								
3													
2												3	2
3												1	
2					<b>5</b>							2	
2		<b>4</b>										2	
2	2	2	3	1	4	3	2	2	1	4	3		

## >> 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](mailto:Gareth@SudokuXtra.com). Alternatively head on over to the Sudoku Xtra discussion forums at [www.SudokuXtra.com/forum](http://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

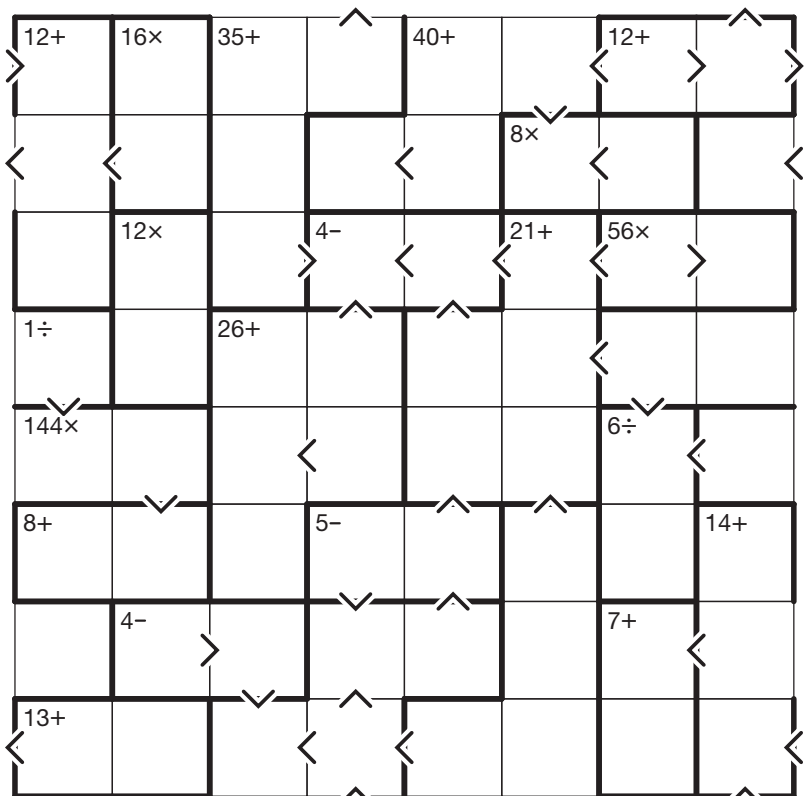
Issue 9 will be available in late July 2010, but if you don't already have all eight issues of Sudoku Xtra then there's no need to wait for more - just head over to [www.SudokuXtra.com](http://www.SudokuXtra.com) and you can get hold of the previous issues too!

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## >> Xtra Sudoku

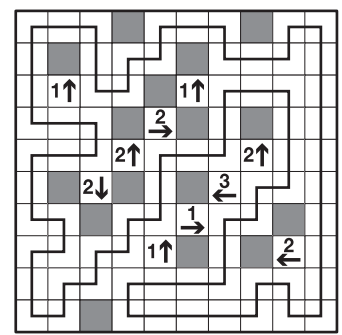
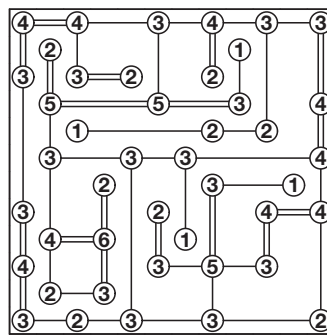
Place 1 to 8 into each row and column.

- > **Toroidal 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. For subtraction and division subtract or divide the other values from the greatest number in the cage. Some cages wrap around puzzle edges.
- > **Toroidal Inequality signs** are shown. 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.

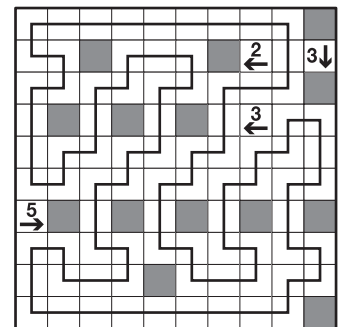


## >> Solutions for pages 1 to 5

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

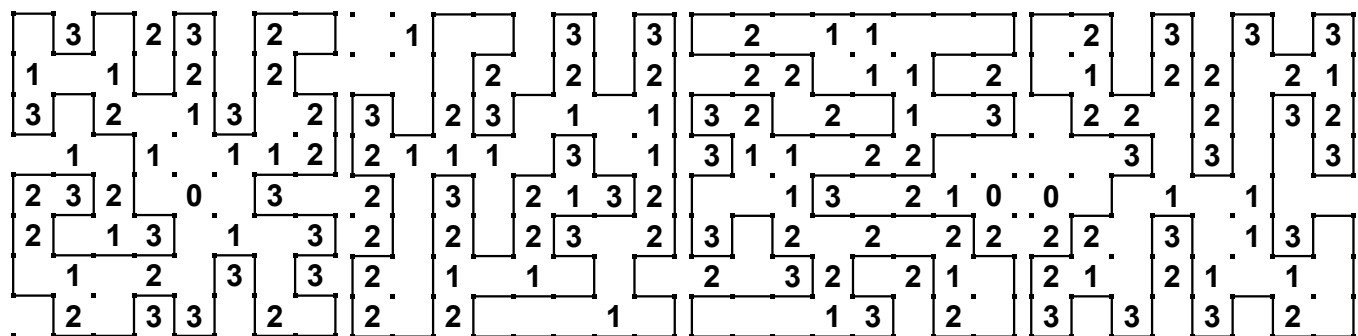


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check out my puzzle blog at  
[www.garethmoore.co.uk](http://www.garethmoore.co.uk)



0-	5	2	3	4	6	3+	1							
24x	6	4	1	3	5	2								
3+	1	6	4	3-	5	2	9+	3						
	2	3	5	1	4	6								
7+	3	5	6	2	4x	1	4							
4	1	2	6	3	5									
4-	1	7+	4+	3	5	4	6							
	4	5	1	2	6	3								
6x	2	3	6	4	5	1	5							
20x	5	4	2	6	3	3	1							
	6	1	4	3	5	2								
14+	3	6	5	1	2	4								
10+	4	6	1	3	5	1	2							
8+	5	3	4	6	2	1								
12x	3	2	5	1	6	4								
	2	1	3	5	4	6								
6-	6	5	2	4	1	3								
1	4	6	2	3	5									

56x	8	5	1	2	6	4	7	3						
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5+	2	6	3	8	7	5	4	1						
16+	3	7	5	6	4	1	8	2						
1	8	2	4	3	6	5	7							
11+	5	1	4	7	2	3	6	8						
6	2	8	5	1	7	3	4							
7+	4	3	7	1	5	8	2	6						
3x	3	7	4	8	6	2	1	5						
1	8	7	9	4	3	5	2	6						
8	1	2	5	4	7	6	3							
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210x	6	4	3	2	7	8	5	1						
7	2	6	1	5	4	3	8							
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11	12	13	13
11	12	13	8
12			

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Play **Sudoku**, **Sudoku X**, **Kakuro**, **Hanjie**, **Killer Sudoku**, **Slitherlink**, **Jigsaw Sudoku**, **Toroidal Sudoku**, **Hitori**, **Futoshiki** and more at:



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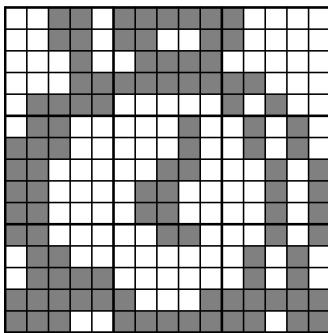
## >> Solutions for pages 21 to 24

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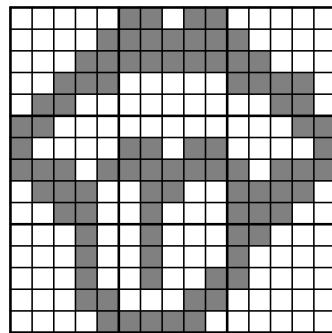
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Stopwatch



Tongue

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# 50 Sudoku Xtra

## >> Solutions for pages 25 to 28

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## >> Solutions for pages 29 to 32

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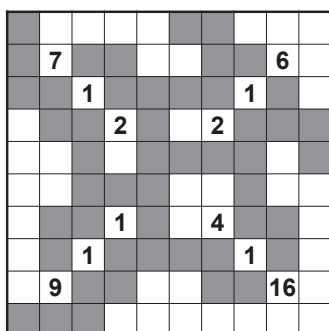
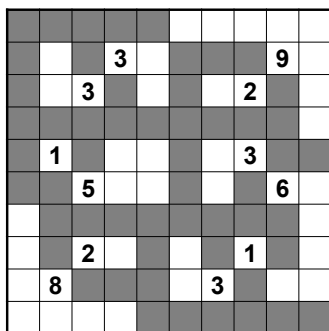
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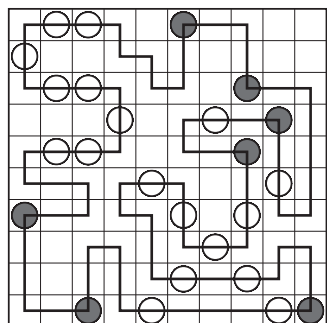
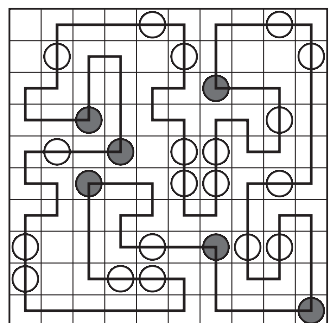
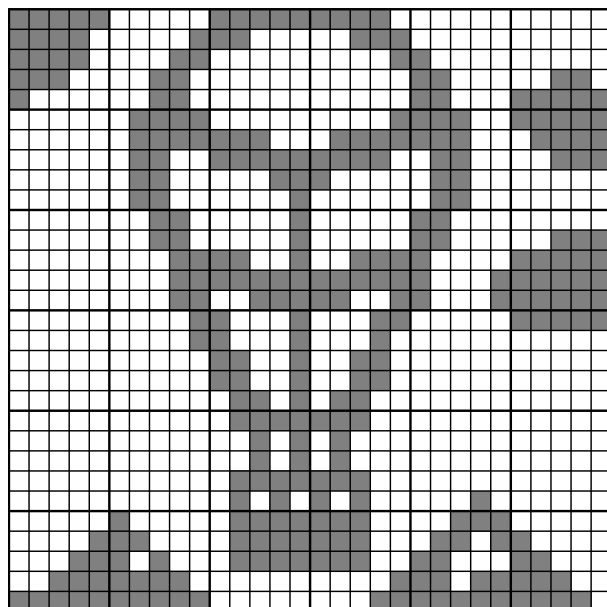
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R	E	C	I	O	L	D	H	Q	G	M	J	N	F	K	B	P	A
Q	D	K	J	N	H	A	B	P	R	I	F	L	C	O	E	G	M
F	K	O	H	P	C	L	I	N	J	G	E	B	M	D	A	Q	R
A	B	L	D	M	N	C	K	R	F	Q	P	G	I	J	O	E	H
E	J	I	G	Q	R	M	O	A	B	H	D	P	K	C	F	N	L

## >> Solutions for pages 33 to 39






Hot air balloon




## >> Solutions for pages 40 to 44

If you're a fan of giant Sudoku puzzles then check out the **Sudoku Xtra Specials** series on [www.SudokuXtra.com](http://www.SudokuXtra.com) - books of **Sudoku 25x25** and **Sudoku 16x16** are now available.

### House Who

17 James  
19 Kate  
21 Matthew  
23 Claire  
25 Simon

### Resolution

Give up smoking  
Give up sweets  
Give up swearing  
To learn French  
To start running

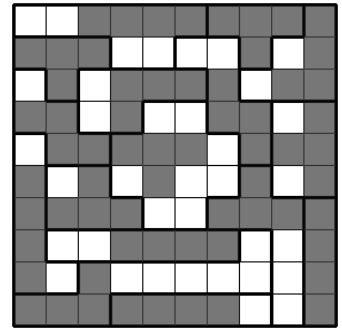
### When

3rd January  
1st January  
1st January  
1st February  
5th January

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

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

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



1	14	14	14	5	5	5	1	6	6	2	2	4	4	1	3	3
2	2	14	2	2	5	5	6	6	6	3	3	4	6	6	1	3
1	14	14	14	1	2	2	4	4	6	2	3	4	6	6	2	2
2	2	14	2	2	3	3	3	4	4	2	5	5	6	6	1	4
1	14	14	14	6	6	1	4	7	1	5	2	5	1	2	2	4
14	14	1	4	4	6	4	4	7	5	5	2	5	5	1	4	4
14	1	2	2	4	6	4	7	7	5	5	4	4	4	3	3	3
9	9	9	9	4	6	6	3	7	3	3	4	3	1	7	7	7
9	2	9	2	6	1	3	3	7	3	1	3	3	2	2	7	7
9	2	1	2	6	6	6	6	7	6	6	6	6	3	3	7	7
9	9	2	1	7	6	5	2	1	2	5	6	5	2	3	1	2
7	7	2	7	7	5	5	2	6	2	5	6	5	2	4	4	2
7	3	3	3	7	1	5	5	6	5	5	1	5	7	7	4	4
7	7	2	1	7	7	4	1	6	5	2	2	5	1	7	7	1
5	7	2	4	4	7	4	4	6	6	3	3	5	7	7	1	4
5	7	3	3	4	3	4	3	3	6	2	3	4	7	2	2	4
5	5	5	3	4	3	3	1	3	1	2	4	4	4	1	4	4

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

7	-	3	x	5	20
+		-		x	
6	+	4	+	2	12
+		+		x	
8	+	9	x	1	17
21		8		10	

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

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

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

	A	A		B	D		
	A	D	B			C	C
	A	C	B		D		D
B	B	D		C		A	
	D	B		A	C		C
C			C	D	A	B	
C	C		A		B	D	D
	B		D	B	D		

2	5	1	3	4	2	1		3	
	2	3	1			5	4		
1	4		5	12		3	1	2	
2					5	4	3	1	
3		1	2		4	5		5	
5		4		3	1		2		
4	3	5		2			1	2	
					1	3	2	5	4
7	1	2	4	5		3		3	

Thanks for buying **Sudoku Xtra!** Issue 9 is out at the end of July 2010.

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