2025 Indian Sudoku Championship

Instructions Booklet

1st June 2025, Kolkata

&

sudoku mahabharat

Round 1:

A Little

Twisted

10 Sudokus

X minutes

Points: X

Sudokus	Points
Classic 1	X
Classic 2	X
Classic 3	X
Classic 4	X
Classic 5	X
Classic 6	X
Classic 7	X
Classic 8	X
Overlapping	X
Sudokurve	X
Total	X

Round 2:

A Little Familiar

8 Sudokus

X minutes

Points: X

Sudokus	Points
Thermo	X
Disjoint	X
Mathdoku	X
The Greater	X
Battenburg	X
Irregular	X
Rossini	X
Thermo & Region Sum Lines	X
Total	X

Round 3:

A Little Unknown

10 Sudokus

X minutes

Points: X

Sudokus	Points
Palindrome	X
Kropki	X
Pandigital Sums	X
Renban	X
German Whispers	X
Parity Lines	X
Disparity	X
234 Outside	X
Arrow & Killer	X
Instructionless	X
Total	X

Round 4:

A Little Mastermind

X minutes

Points: X

Sudokus	Points
Sudoku Mastermind	X (Partial Points available)
Total	X

Acknowledgments:

LMI Thanks the following puzzlers for their involvement in putting this competition together

Authors: Bill Murphy (Australia), Chandrachud Nanduri (India), James Peter (India), Madhav Sankaranarayanan (India), Nikola Zivanovic (Serbia), Philip Newman (USA), Prasanna Seshadri (India), Wessel Strijkstra (The Netherlands)

Testers: Bill Murphy, Chiel Beenhakker (The Netherlands), Philip Newman, Prasanna Seshadri (India)

Curator/Editor: Prasanna Seshadri (India)

Tie Breakers & Bonus Points:

- In case of a tie, the participant with the higher score in Round 3 will rank higher. If there is still a tie, we will look at Round 2, then Round 1. If there is still a tie, a tie-breaker puzzle will be used if the position in question is relevant to the team selection positions or the Puzzle Ramayan playoffs.
- If all puzzles are solved correctly in a round, the participant will score an additional 10 points per minutes saved.

Schedule

Time	Activity
9:00-9:30	Completing registration
9:30-10:15	Q & A
10:30-X	Round 1
X-X	Round 2
X-X	Lunch
X-X	Round 3
X-X	Round 4
X-X	Fun Event
X-X	SM Playoffs
X-18:00	Results & Prize Distribution

Round 1: A Little Twisted

Round Description: This round has 8 Classic Sudokus and two Twisted Classic variants.

1-8 Classic Sudoku

X+X+X+X+X+X+X+X points

Place a digit from 1 to 9 in each empty cell so that each digit appears exactly once in each row, column and 3X3 box.

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

9 Overlapping Sudoku

X points

Two 9x9 Sudokus are overlapping. Separately, they each follow Classic Sudoku rules: Place a digit from 1 to 9 in each empty cell so that each digit appears exactly once in each row, column and 3x3 box.

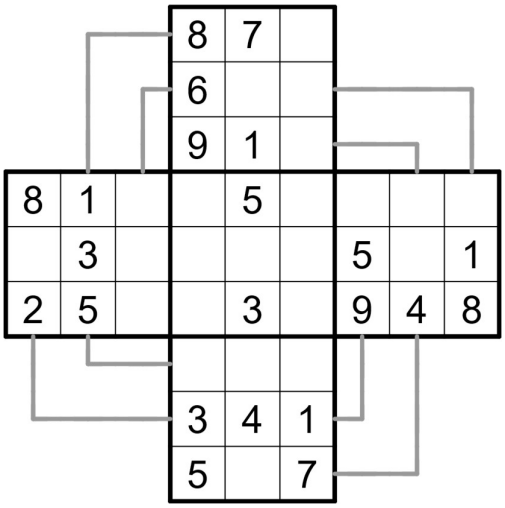
		7				6					
	8			4			2				
2			5								
		6			3	4					
	7			2			5			7	
			1		8			6			2
6			2			9		7			
	9			3			6			1	
					4	5			2		
								3			6
				8			4			3	
					9				1		

10 Sudokurve

X points

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Some rows and columns are bent, marked by curved lines.



Round 2: A Little Familiar

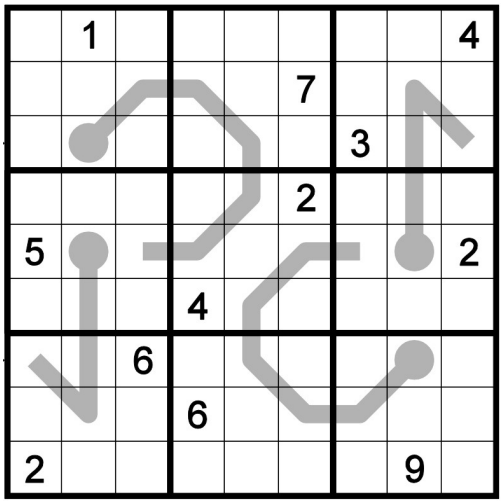
Round Description: This round contains variations that appeared in the 2025 SM Rounds.

1 Thermo Sudoku (Standard)

X points

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Digits along each thermometer are strictly increasing from its bulb to each of its ends.



2 Disjoint Sudoku (Converse)

X points

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

No digit can appear in the same cell position in different 3x3 outlined boxes.

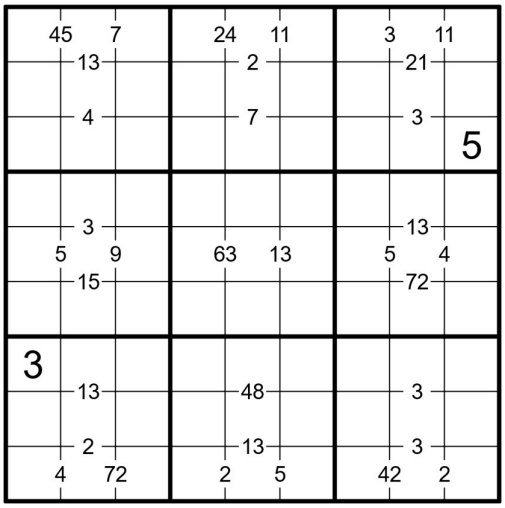
2	3		9	6				1
1	4		8	7				
6	7							
5	8			2	3			
				1	4			
							3	4
3							5	6

3 Mathdoku (Math)

X points

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Some boxes contain numbers between adjacent cells that are the result of a mathematical operation (+, -, *, /) of the digits in those cells. If there are multiple such numbers within a 3x3 box, each number is the result of a different operation.

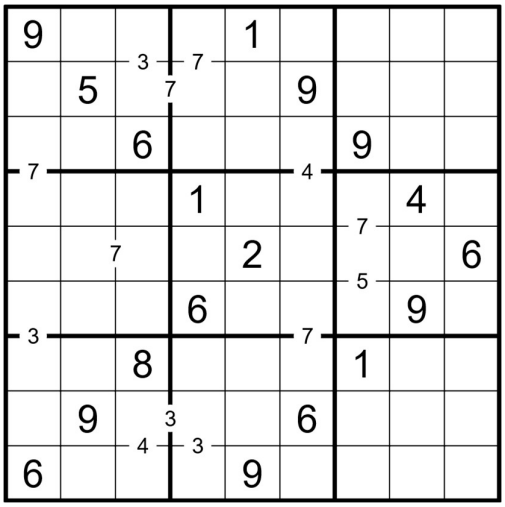


4 The Greater Sudoku (Neighbours)

X points

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Each digit between adjacent cells is the larger of the digits in those two cells.

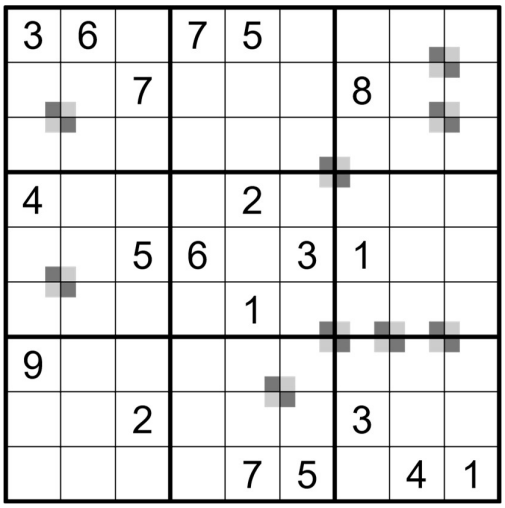


5 Battenburg Sudoku (OE)

X points

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

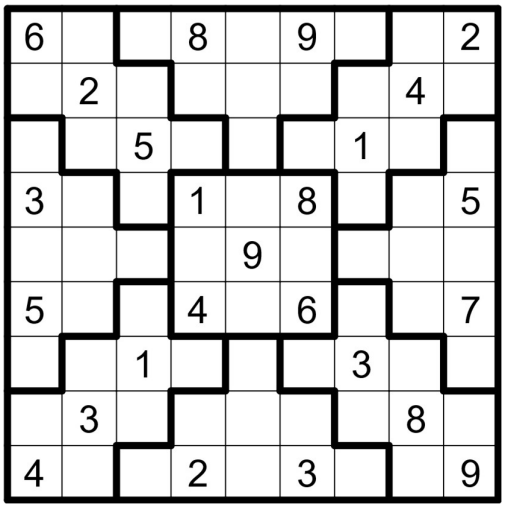
Each 2x2 area with two odd digits and two even digits forming a checkerboard pattern is marked with a Battenburg symbol. All such 2x2 areas are marked.



6 Irregular Sudoku (Irregular)

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and outlined region.

X points

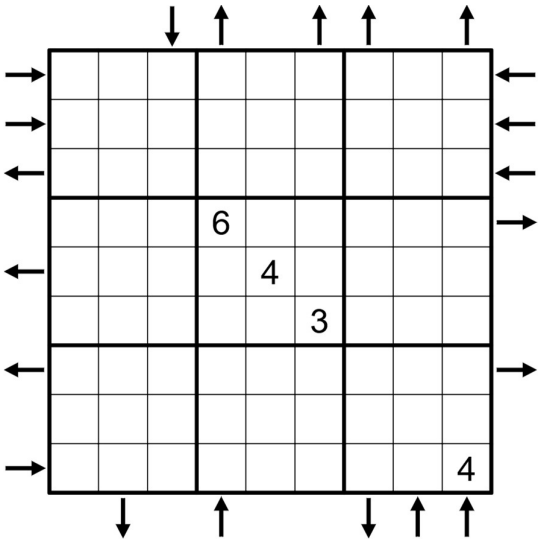


7 Rossini Sudoku (Outside)

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Each arrow outside the grid indicates that the digits within the first box (till the next bold line) in the corresponding direction are in ascending order in the direction of the arrow. All such arrows are marked.

X points



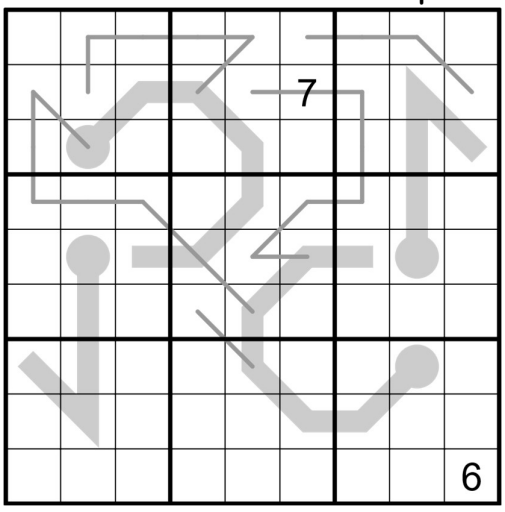
8 Thermo & Region Sum Lines Sudoku (Hybrids)

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Digits along each thermometer are strictly increasing from its bulb to each of its ends.

Digits on each line add up to the same number in each box it visits.

X points



Round 3: A Little Unknown

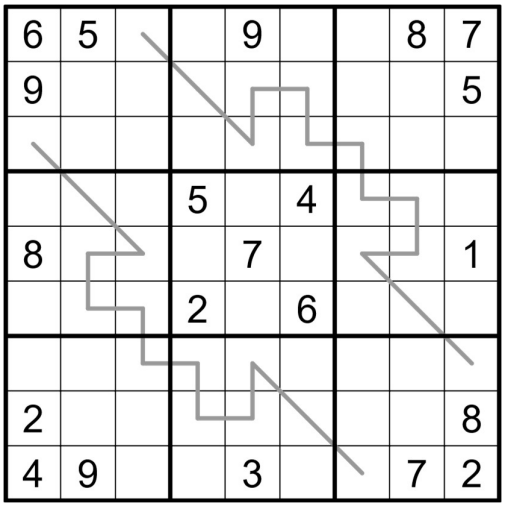
Round Description: This round has variations that did not appear in the 2025 SM Rounds, but belong to the various categories explored.

1 Palindrome Sudoku (Standard)

X points

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Digits along each line are a palindrome, they read the same from both directions.

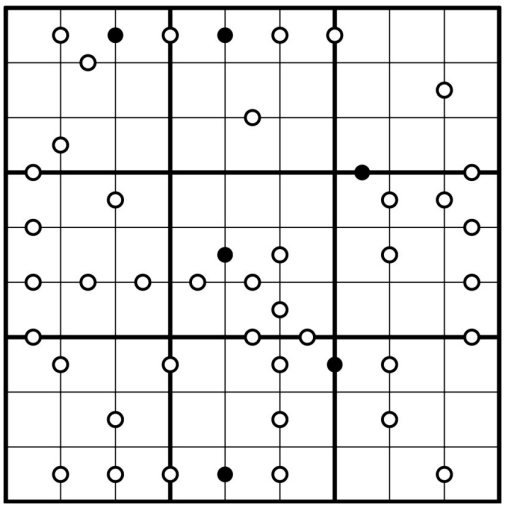


2 Kropki Sudoku (Converse)

X points

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Adjacent cells marked with a white circle contain consecutive digits. Adjacent cells marked with a black circle contains digits where one digit is double of the other digit. The circle between 1 and 2 can be of either colour. All possible circles are marked.

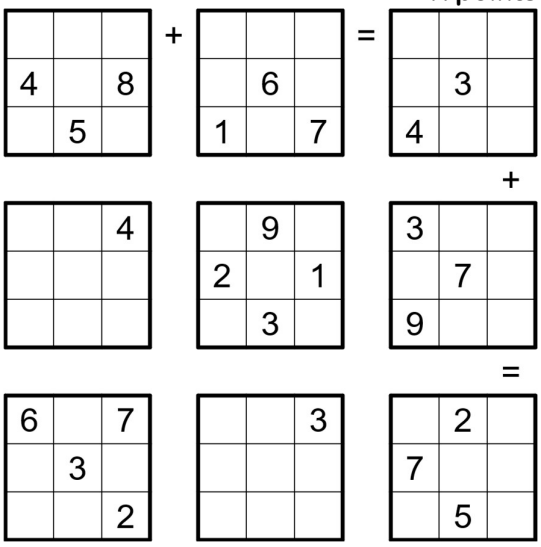


3 Pandigital Sums Sudoku
(Math)

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Some rows and columns represent arithmetic equations with 3-digit numbers. Numbers are read left to right or top to bottom.

X points



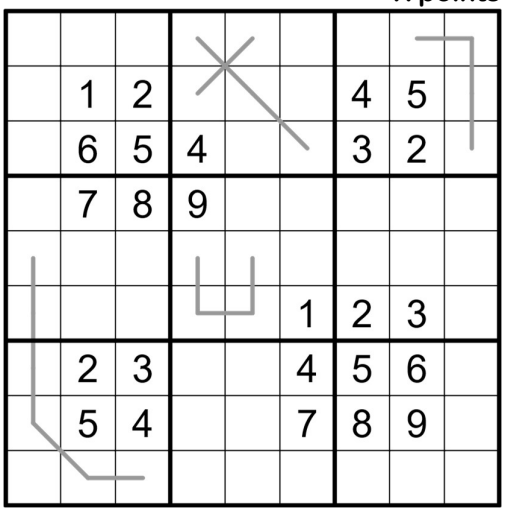
4 Renban Sudoku
(Neighbours)

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Each marked line contains a set of consecutive digits, in any order. Digits do not repeat within a line.

<u>Note: Lines intersecting at a point go straight and cannot turn.</u>

X points

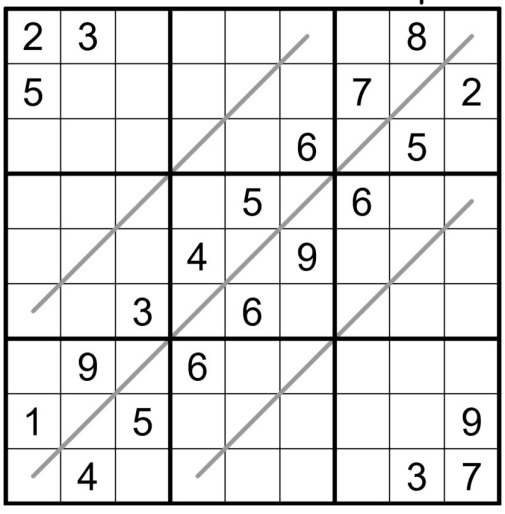


5 German Whispers Sudoku
(Neighbours)

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Adjacent digits along the marked grey lines have a difference of at least 5.

X points

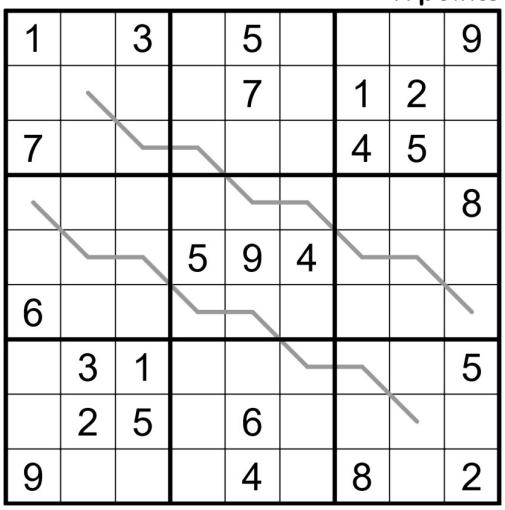


6 Parity Lines Sudoku (Odd Even)

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Digits along each line alternate between odd and even, i.e. Any two consecutive cells along a line must have an odd sum.

X points



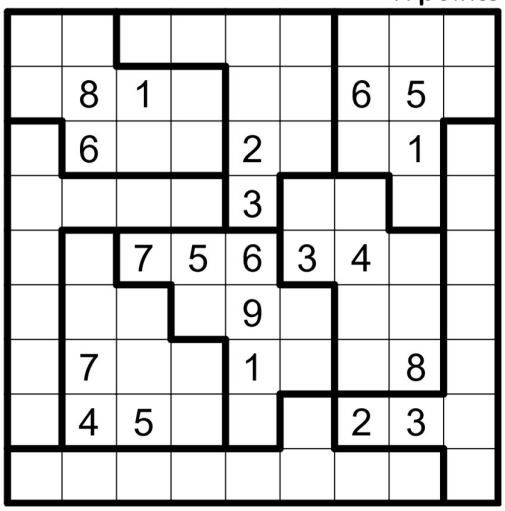
7 Disparity Sudoku (Irregular)

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

Neighbouring cells in different regions must be of opposite parity, i.e. any two digits separated by a region border must have an odd sum.

<u>Note: Example taken from Sudoku Surprise, a past Monthly Test on LMI.</u>

X points

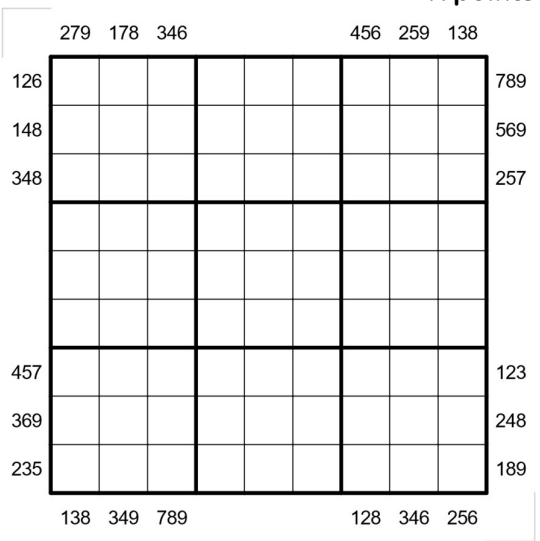


8 234 Outside Sudoku (Outside)

Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

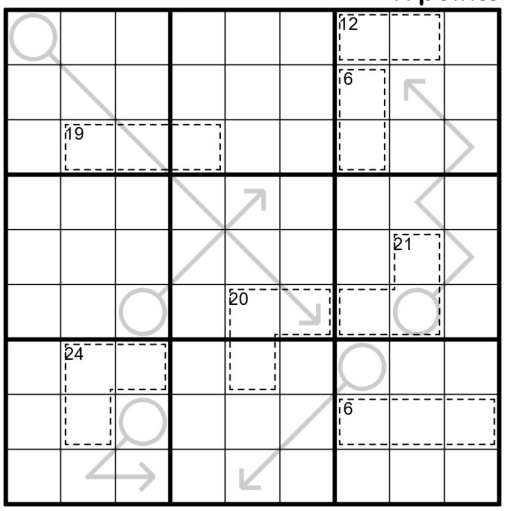
Each digit outside the grid appears in one of 2nd, 3rd or 4th cells in the corresponding direction.

X points



9 Arrow & Killer Sudoku
(Hybrids)

X points



Place a digit from 1 to 9 into each empty cell in the grid so that each digit appears exactly once in each row, column and 3x3 outlined box.

The digit in each circled cell is the sum of digits along the path of its arrow. Digits can repeat within an arrow shape.

<u>Note: Arrows intersecting at a point go straight and cannot turn.</u>

The number at the top-left corner of each cage is the sum of digits inside the cage. Digits do not repeat within a cage.

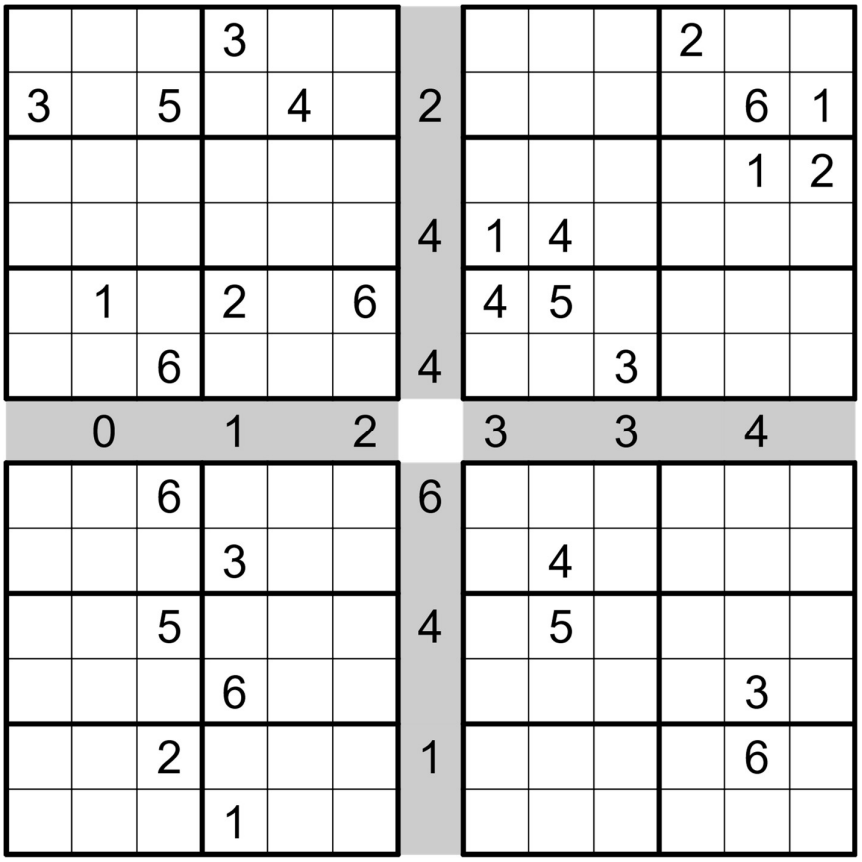
10 Instructionless Sudoku

X points

There are no instructions for this variation. An example image will be given with a solution in order to derive the rules and solve the competition Sudoku below them.

Round 4: A Little Mastermind

Round Description: This round will have an interconnected set of 6x6 Classic Sudokus. Different grids are connected by numbers between them. The clues between grids give the number of digits in the same position in the corresponding rows or columns on each side, reading from left to right and top to bottom respectively. An example is given below, with four interconnected grids.



Solutions

Round 1

Classic Sudoku

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

Sudokurve

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

Overlapping Sudoku

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

Round 2

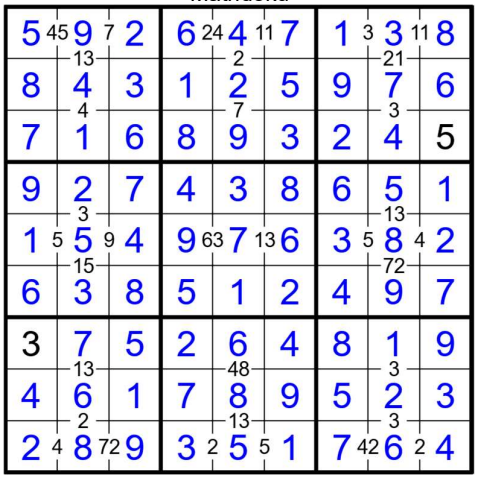
Thermo

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

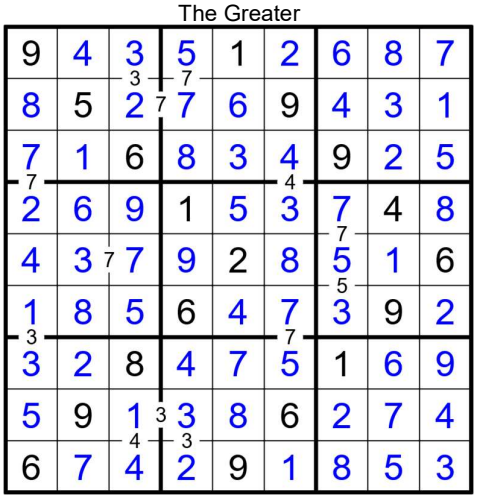
Disjoint

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

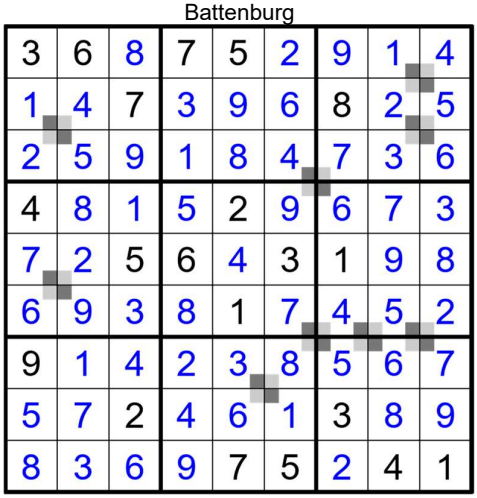
Mathdoku



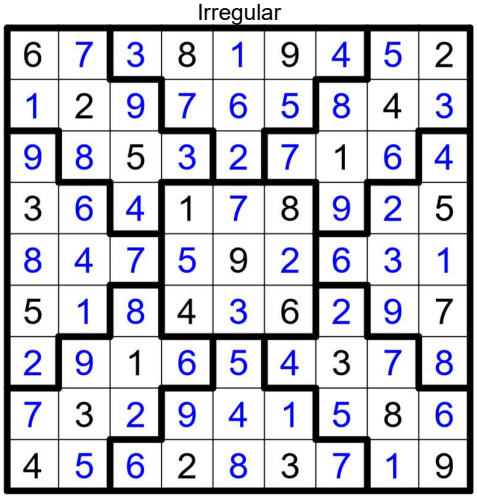
The Greater



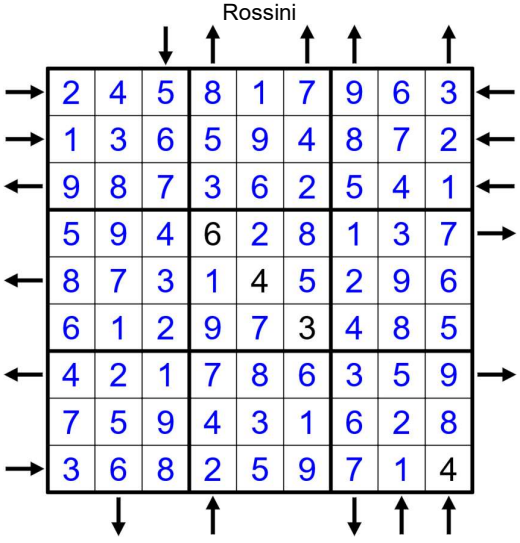
Battenburg



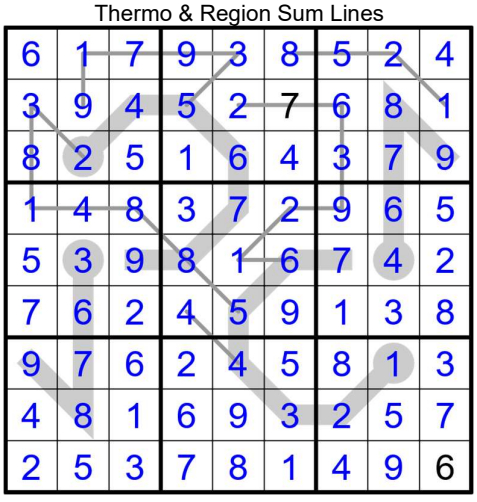
Irregular



Rossini



Thermo & Region Sum Lines



Round 3

Palindrome

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

Kropki

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

Pandigital Sums

2	1	9
4	7	8
3	5	6

+

3	4	8
5	6	9
1	2	7

=

5	6	7
2	3	1
4	9	8

+

8	6	4
5	9	3
7	2	1

7	9	5
2	8	1
6	3	4

3	1	2
6	7	4
9	8	5

=

6	8	7
9	3	5
1	4	2

4	5	3
8	1	2
9	7	6

1	2	9
7	4	6
8	5	3

Renban

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

German Whispers

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

Parity Lines

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

Disparity

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

234 Outside

	279	178	346				456	259	138	
126	5	6	2	1	3	9	7	8	4	789
148	7	1	4	8	2	5	6	9	3	569
348	9	8	3	4	6	7	5	2	1	257
	2	7	6	9	1	3	4	5	8	
	4	5	1	2	8	6	3	7	9	
	3	9	8	7	5	4	1	6	2	
457	8	4	7	5	9	1	2	3	6	123
369	1	3	9	6	7	2	8	4	5	248
235	6	2	5	3	4	8	9	1	7	189
	138	349	789				128	346	256	

Arrow & Killer

9	6	3	1	4	2	12 7	5	8
5	1	4	7	6	8	6 2	3	9
7	19 8	2	9	3	5	4	6	1
4	3	7	2	5	9	8	1	6
8	5	6	4	1	7	3	21 9	2
1	2	9	6	20 8	3	5	7	4
2	24 7	8	3	9	1	6	4	5
6	9	5	8	7	4	6 1	2	3
3	4	1	5	2	6	9	8	7

Round 4

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