

# Unlucky 13

By Rohan Rao

- The contest will be held from 1st to 6th April, 2015.
- The duration of the contest is 65 minutes.
- There are 13 Sudokus to be solved.
- Answer keys will be two marked rows.
- Instant grading is enabled for this test and the first, second, third, fourth incorrect submission will reduce the potential score of the Sudoku to 90%, 70%, 40%, 0%.
- Bonus of 13 points per minute saved will be awarded after all Sudokus are correctly submitted.
- This test will be included in the LMI ratings.
- Please post any queries on the LMI forum.
- The points table is as follows:

Puzzle	Points
Diagonal Sudoku	104
Windoku	117
Irregular Sudoku	91
Killer Sudoku	130
Odd Even Sudoku	91
Anti-Diagonal Sudoku	65
Inequality Sudoku	143
Renban Sudoku	117
Thermo Sudoku	91
Stripes Sudoku	78
Clone Sudoku	65
Arrow Sudoku	104
Surprise Sudoku	117
<b>Total</b>	<b>1313</b>

Forum link: <http://logicmastersindia.com/forum/forums/thread-view.asp?tid=938#M18026>

Submission link: <http://logicmastersindia.com/2015/04S/>

F.A.Q: <http://logicmastersindia.com/forum/forums/thread-view.asp?tid=381>

## Diagonal Sudoku

Standard Sudoku Rules apply.

Each main diagonal contains the digits 1 to 9 exactly once.

**104 points**

## Windoku

Standard Sudoku Rules apply.

Each of the four shaded 3x3 regions contain the digits 1 to 9 exactly once.

**117 points**

## Irregular Sudoku

Standard Sudoku Rules apply.

Instead of the standard 3x3 regions, the regions are outlined by thick-lines which contain the digits 1 to 9 exactly once.

**91 points**

A 9x9 grid with thick-lined irregular regions. The grid contains the following numbers:

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

Arrows A and B point to specific cells in the grid.

## Killer Sudoku

Standard Sudoku Rules apply.

The number in top-left corner of cage indicates the sum of digits inside the cage. Digits cannot repeat within a cage.

**130 points**

A 9x9 grid with dashed-line cages. The grid contains the following numbers in the top-left corners of the cages:

12		9		22	7		20	
	18						18	
16			45					7
	12					45		
							9	
24								11
	23					10		
9		13	15		18			24

Arrows A and B point to specific cells in the grid.

## Odd Even Sudoku

Standard Sudoku Rules apply.

Shaded squares contain even digits. Shaded circles contain odd digits.

**91 points**

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

## Anti Diagonal Sudoku

Standard Sudoku Rules apply.

Each main diagonal consists of exactly three distinct digits.

**65 points**

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

## Inequality Sudoku

Standard Sudoku Rules apply.

Digits in adjacent cells having an inequality sign must satisfy the sign.

**143 points**

	7			1			4	
	9			2			8	
	2			6			7	

## Renban Sudoku

Standard Sudoku Rules apply.

Each group of shaded cells contain a set of consecutive digits.

**117 points**

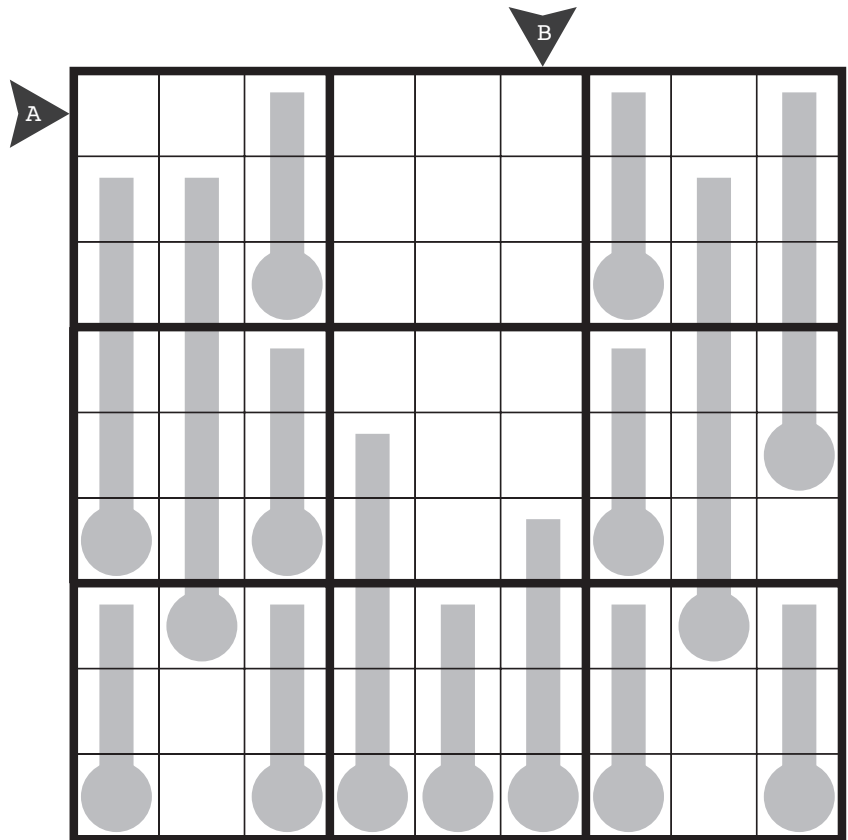
	1	2	3			4	5	
	4	5	6			3	2	
	7	8	9					
					1	2	3	
	2	3			4	5	6	
	5	4			7	8	9	

## Thermo Sudoku

Standard Sudoku Rules apply.

Each thermometer contains digits increasing from the bulb to the tip.

**91 points**

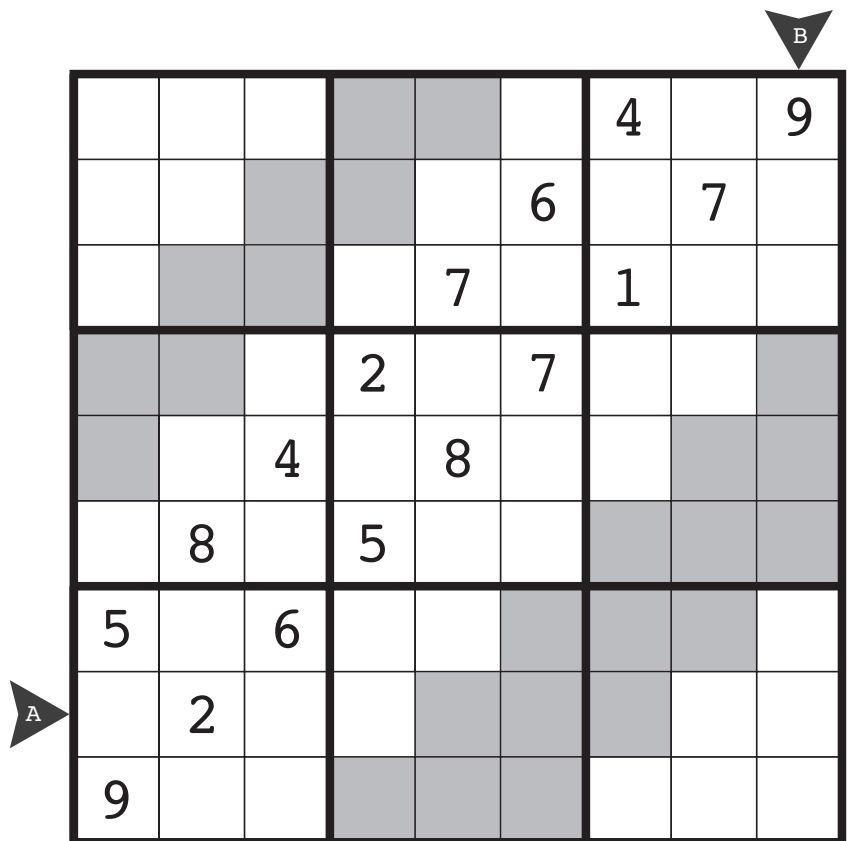


## Stripes Sudoku

Standard Sudoku Rules apply.

In each 3x3 box, if there are 'n' shaded cells, digits 1 to 'n' appear in those cells.

**78 points**



## Clone Sudoku

Standard Sudoku Rules apply.

Both marked shapes contain the same set of numbers in the same position.

**65 points**

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

## Arrow Sudoku

Standard Sudoku Rules apply.

The digit in the circle is the sum of digits along its arrow.

**104 points**

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

Diagonal

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

WinDoku

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

Irregular

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

Killer

12	5	9	4	3	22	9	7	1	2	20	7	8
1	18	3	8	2	6	7	4	18	4	18	9	5
16	9	2	7	45	5	4	8	3	6	7	1	
5	12	1	3	9	7	6	45	8	2	4		
4	7	6	1	8	2	9	9	5	3			
28	8	9	2	4	3	5	7	1	16			
7	23	8	9	6	1	4	10	5	3	2		
9	3	6	13	15	8	2	18	1	4	24		
2	4	1	7	5	3	6	8	9				

Odd Even

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

Anti Diagonal

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

Inequality

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

Renban

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

Thermometer

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

Stripes

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

Clone

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

Arrow

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