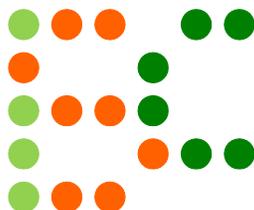


# इयतठकय mahabharat



## Instructions Booklet

Episode – 8  
23<sup>rd</sup> – 28<sup>th</sup> July 2021

Odd Even Variations  
By  
Nityant Agarwal

Sudoku Mahabharat rounds will also serve as qualifiers for Indian Sudoku Championship for year 2021. Please check <http://logicmastersindia.com/SM/2021sm.asp> for details.

### Important Links

Submission Page : <http://logicmastersindia.com/live/?contest=SM202108>

Discussion Thread : <http://logicmastersindia.com/t/?tid=2885>

F. A. Q. : <http://logicmastersindia.com/t/?tid=2773>

Registration, if required : <http://logicmastersindia.com/register.asp>





## Penpa Usage

This contest will also be solvable on the Penpa-Edit software. Below the rules of each Sudoku will be a link to click to solve on the editor. The editor DOES NOT have a solution enabled so it will not check a solution. Participants must submit the answer key codes as they would with paper solving. It is therefore advisable to enter solution codes one at a time to avoid system lag with too many tabs open.

To practice on the editor, we have given links for solving the example sudokus too.

## Credits

- The original creator **opt-pan** for penpa edit - <https://opt-pan.github.io/penpa-edit/>
- **Swaroop Guggilam** for his recent efforts in adding features to Penpa-edit - <https://swaroopg92.github.io/penpa-edit/>

## General Rules

To make the rules less repetitive, you will see following line “Apply classic Sudoku rules” in most Sudoku rules. This means “Place a digit from 1 to N, where N is the size of the grid, in each empty cell so that each digit appears exactly once in each row, column and outlined region.” These outlined regions could be 3X3 boxes, or other shapes.

Each Sudoku will be marked with 2 lettered arrows. You need to submit the digits in these arrows, in order, including the givens. For example, the answer key for the Sudoku at the right is 162897453, 517698432.

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

## About the Sudoku Booklet

The password protected Sudoku booklet will have 8 pages. If you are planning to solve on paper, we advise you to have a printer accessible with enough paper.

The Sudoku booklet will look similar to the next pages in this instruction booklet. The font sizes, cell sizes, colors, borders, shading, margin will be similar. We recommend you to print a few pages of this instruction booklet and avoid any last-minute surprises during the test.



### 9. Odd Even Sudoku - 1

Penpa Link: <https://bit.ly/36NRkWb>

2 points

Apply classic Sudoku rules.

Shaded squares should contain even digits (2,4,6) while shaded circles should contain odd digits (1,3,5).

A cell which is not shaded can contain digit of any parity

### 10. Odd Even Sudoku - 2

Penpa Link: <https://bit.ly/36Rtp8o>

5 points

Apply Classic Sudoku rules.

Shaded squares should contain even digits (2,4,6,8) while shaded circles should contain odd digits (1,3,5,7,9).

A cell which is not shaded can contain digit of any parity

## 11. Odd Even Arrow Sudoku - 1

Penpa Link: <https://bit.ly/3y7VrbC>

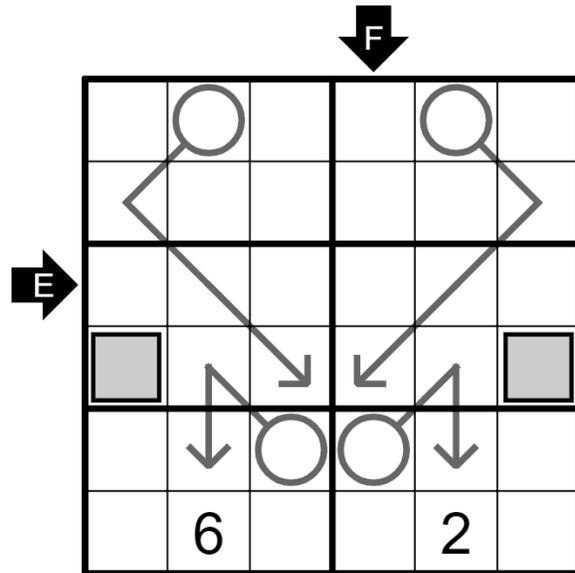
5 points

Apply classic Sudoku rules.

Additionally, the sum of the digits along the path of each arrow must equal the digit in the circled cell. Digits can repeat within an arrow shape.

All arrow circles in the first TWO rows should have digits with the same parity.

Shaded squares should contain even digits (2,4,6) while shaded circles should contain odd digits (1,3,5). A cell which is not shaded can contain digit of any parity.



## 12. Odd Even Arrow Sudoku - 2

Penpa Link: <https://bit.ly/3kFt3db>

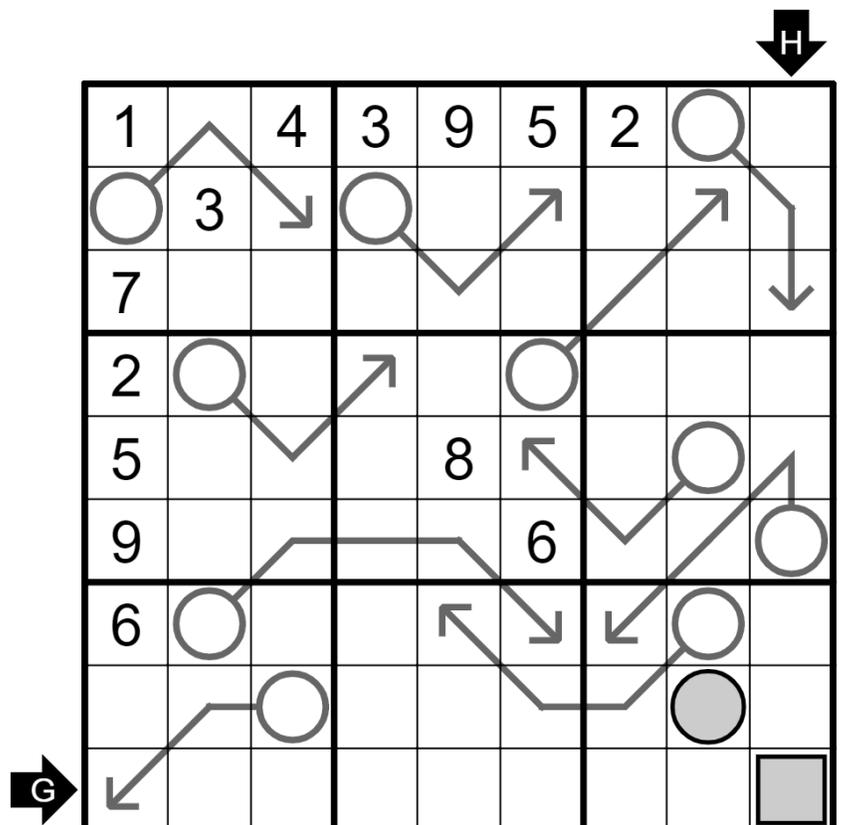
18 points

Apply classic Sudoku rules.

Additionally, the sum of the digits along the path of each arrow must equal the digit in the circled cell. Digits can repeat within an arrow shape.

All arrow circles in the first THREE rows should have digits with the same parity.

Shaded squares should contain even digits (2,4,6,8) while shaded circles should contain odd digits (1,3,5,7,9). A cell which is not shaded can contain digit of any parity.



### 13. Odd Even Renban Sudoku - 1

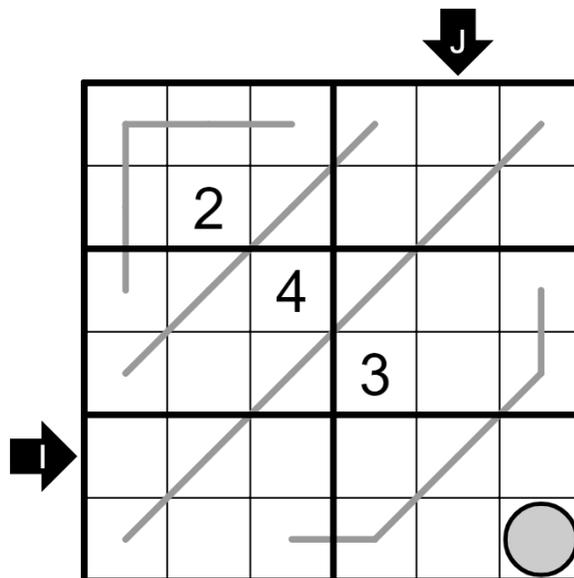
Penpa Link: <https://bit.ly/2V2y1Wu>

4 points

Apply classic Sudoku rules.

Additionally, marked lines should contain consecutive digits, in any order.

Shaded squares should contain even digits (2,4,6) while shaded circles should contain odd digits (1,3,5). A cell which is not shaded can contain digit of any parity.



### 14. Odd Even Renban Sudoku - 2

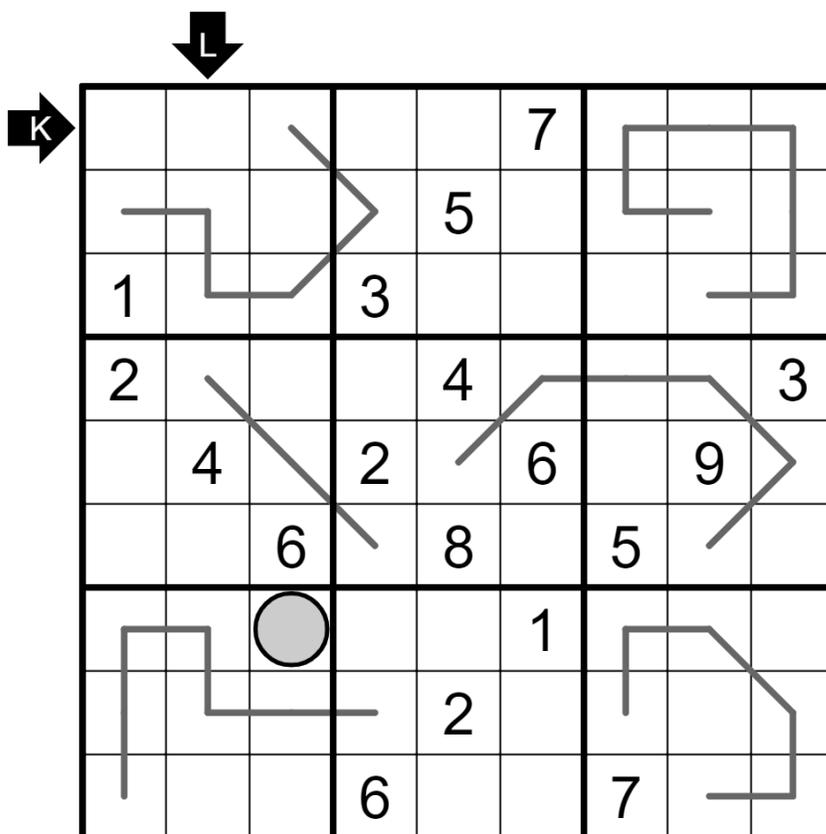
Penpa Link: <https://bit.ly/2Trylsf>

9 points

Apply classic Sudoku rules.

Additionally, marked lines should contain consecutive digits, in any order.

Shaded squares should contain even digits (2,4,6,8) while shaded circles should contain odd digits (1,3,5,7,9). A cell which is not shaded can contain digit of any parity.



## 15. Parity Switch Sudoku - 1

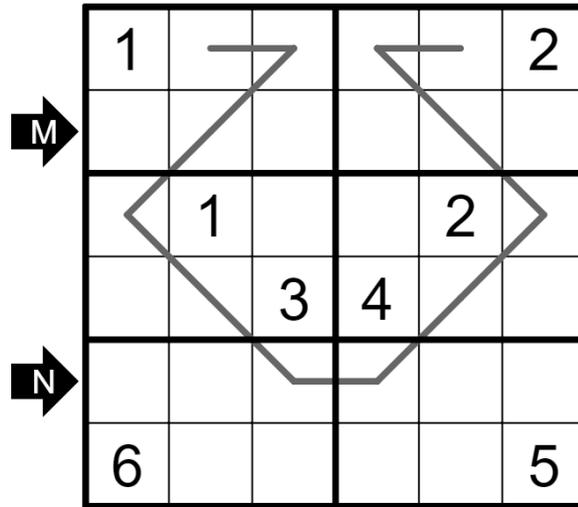
Penpa Link: <https://bit.ly/3xYgUDX>

2 points

Apply classic Sudoku rules.

Additionally, two adjacent cells joined by a line should have digits with different parities. This includes diagonally adjacent cells connected by a line.

Shaded squares should contain even digits (2,4,6) while shaded circles should contain odd digits (1,3,5). A cell which is not shaded can contain digit of any parity.



## 16. Parity Switch Sudoku - 2

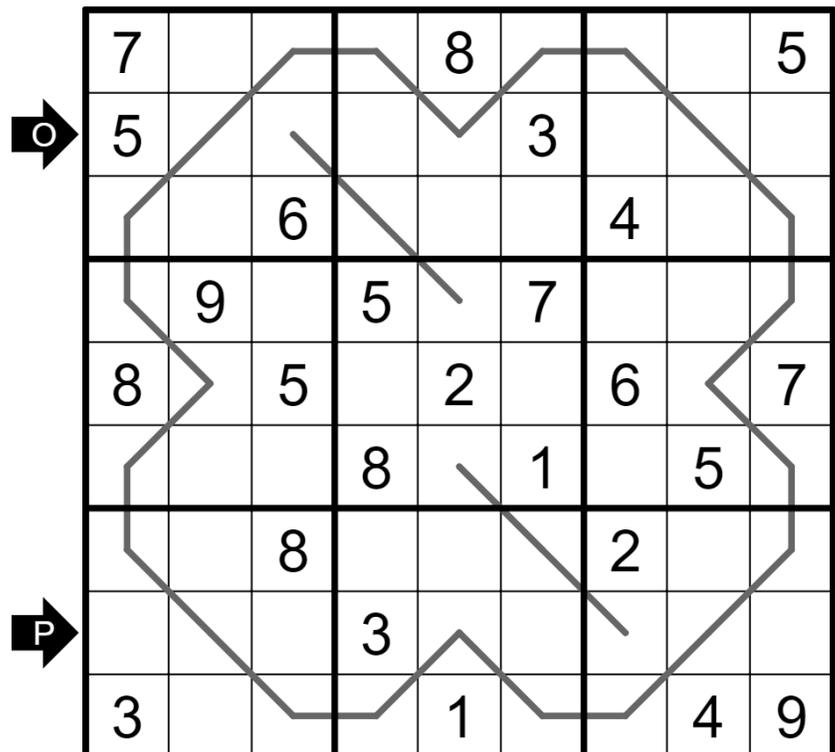
Penpa Link: <https://bit.ly/3zjR1ib>

9 points

Apply classic Sudoku rules.

Additionally, two adjacent cells joined by a line should have digits with different parities. This includes diagonally adjacent cells connected by a line.

Shaded squares should contain even digits (2,4,6,8) while shaded circles should contain odd digits (1,3,5,7,9). A cell which is not shaded can contain digit of any parity.



## 17. Odd Even View Sudoku - 1

Penpa Link: <https://bit.ly/3BsGVxu>

7 points

Apply classic Sudoku rules.

Shaded squares should contain even digits (2,4,6) while shaded circles should contain odd digits (1,3,5). A cell which is not shaded can contain digit of any parity.

Additionally, an even digit outside the grid must be the first even digit seen from that direction and an odd digit outside the grid must be the first odd digit seen from that direction.

## 18. Odd Even View Sudoku - 2

Penpa Link: <https://bit.ly/36RMAz6>

15 points

Apply classic Sudoku rules.

Shaded squares should contain even digits (2,4,6,8) while shaded circles should contain odd digits (1,3,5,7,9). A cell which is not shaded can contain digit of any parity.

Additionally, an even digit outside the grid must be the first even digit seen from that direction and an odd digit outside the grid must be the first odd digit seen from that direction.

**Mini Classic Sudoku**

↓ B

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

A →

Answer Key:  
412356, 325461

**Classic Sudoku**

↓ D

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

C →

Answer Key:  
781564329, 718369254

**Odd Even - 1**

↓ B

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

A →

Answer Key:  
152634, 532146

**Odd Even Arrow - 1**

↓ F

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

E →

Answer Key:  
514236, 532164

**Odd Even - 2**

C →

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

D →

Answer Key:  
729615384, 514387962

**Odd Even Arrow - 2**

↓ H

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

G →

Answer Key:  
317459826, 753128496

Odd Even Renban – 1

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

Answer Key:  
142653, 631254

Parity Switch – 1

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

Answer Key:  
326514, 451263

Odd Even Renban – 2

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

Answer Key:  
483917256, 865941372

Parity Switch – 2

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

Answer Key:  
584193726, 249375168

Odd Even View – 1

	12	23						
25	5	2	3	1	6	4		
6	4	1	2	3	5		25	
	3	6	5	4	1	2	12	
14	4	1	2	6	5	3		
14	1	3	4	5	2	6		
	2	5	6	3	4	1	14	
							36	45

Answer Key:  
641235, 124653

Odd Even View – 2

	47	36		89		45	27								
58	1	4	6	7	9	3	5	2	8						
5	7	8	4	1	2	3	6	9	69						
29	9	2	3	5	8	6	4	7	1	14					
6	9	7	2	4	5	8	1	3							
4	1	5	6	3	8	7	9	2	29						
3	8	2	1	7	9	6	5	4							
47	7	5	4	3	2	1	9	8	6	69					
18	8	6	1	9	5	4	2	3	7	27					
2	3	9	8	6	7	1	4	5							
										36	49			12	34

Answer Key:  
697245813, 382179654