

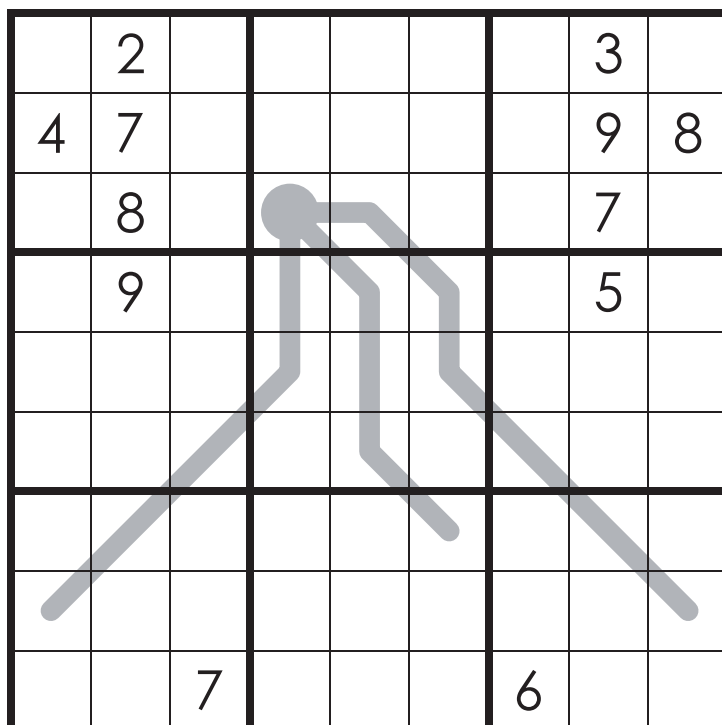
**9 Thermo-Sudoku****(33 points)**

Apply Classic Sudoku rules. Additionally, some thermometers are in the grid. Digits on a thermometer are strictly increasing from the round bulb.

**Answer Key:** Enter the 6<sup>th</sup> row of digits, followed by the 8<sup>th</sup> row of digits.

9A →

9B →

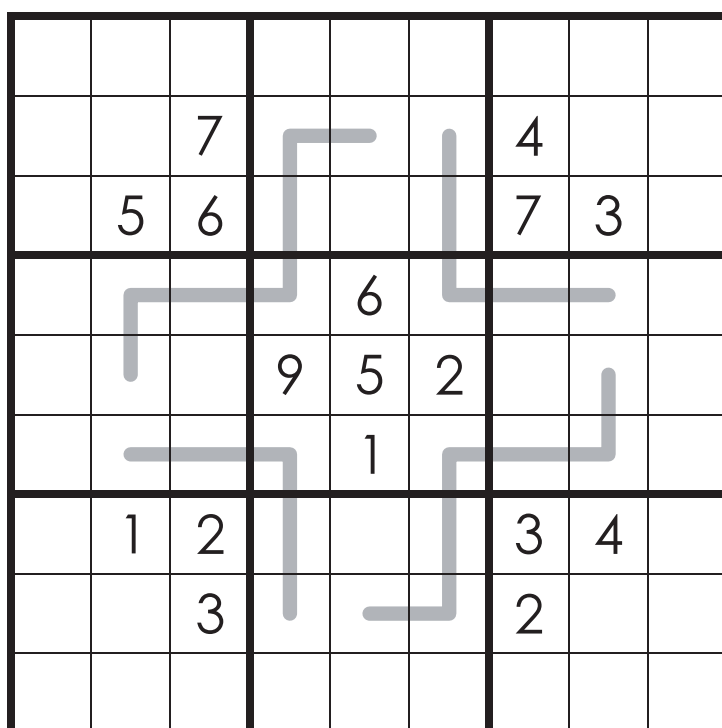
**10 Palindrome Sudoku****(69 points)**

Apply Classic Sudoku rules. Additionally, the numbers formed by the digits on the gray lines are palindromes meaning they can be read equally in both directions.

**Answer Key:** Enter the 6<sup>th</sup> row of digits, followed by the 9<sup>th</sup> row of digits.

10A →

10B →



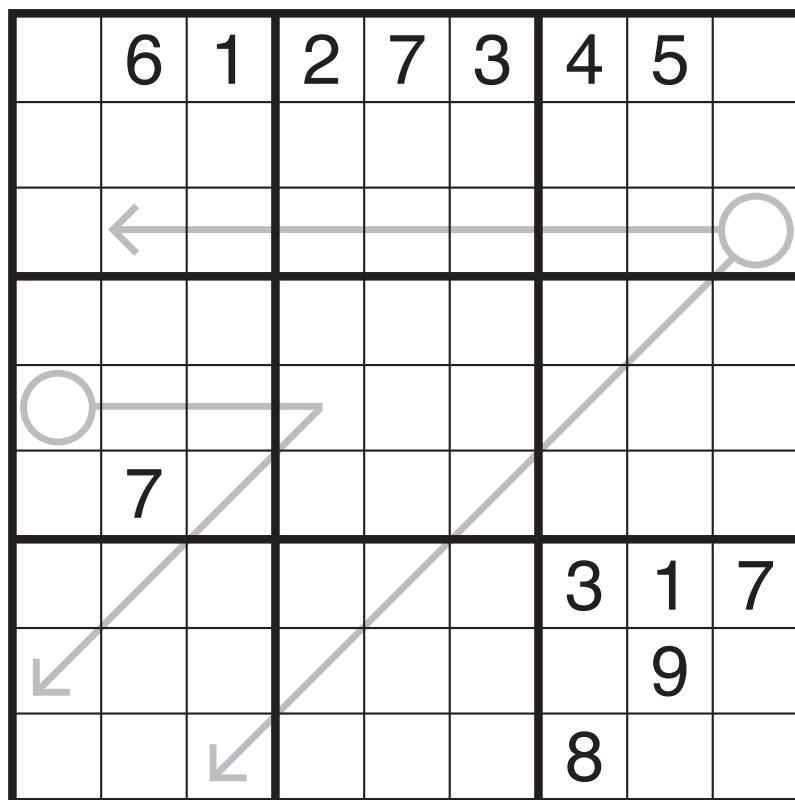
### 11 Arrow Sequences Sudoku (33 points)

Apply Classic Sudoku rules. Additionally, there are circles and arrows in the grid. For a digit N in a circle, the digit N+1 is at the end of the attached arrow. The digits along the arrow (not including the circle) must form a sequence of consecutive digits. (The digit in the circle can appear along the arrow itself.)

11A

**Answer Key:** Enter the 2<sup>nd</sup> row of digits, followed by the 6<sup>th</sup> row of digits.

11B



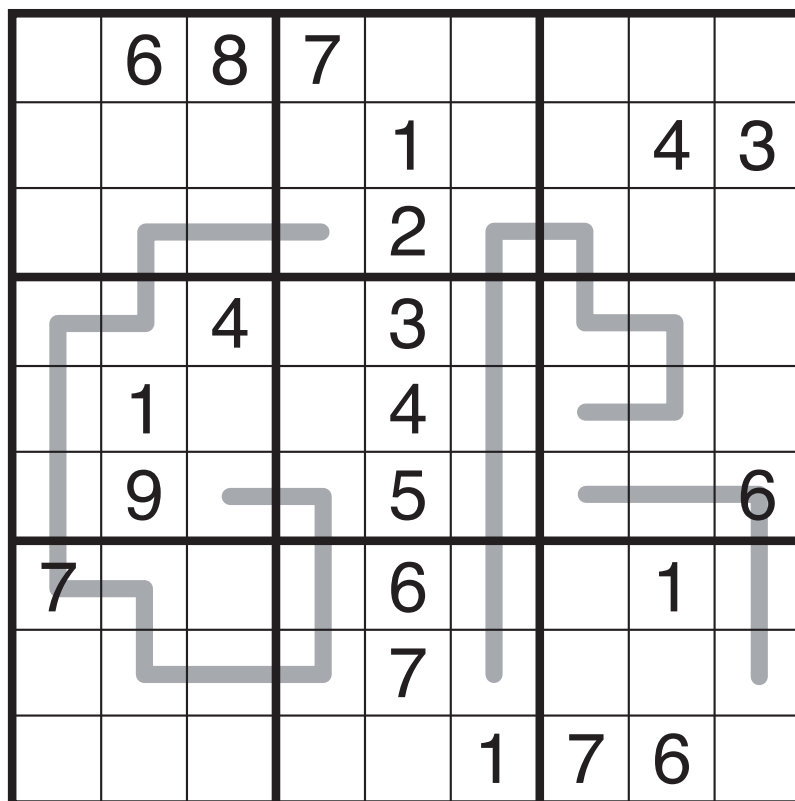
## 12 Palindrome Sudoku (42 points)

Apply Classic Sudoku rules. Additionally, the numbers formed by the digits on the gray lines are palindromes meaning they can be read equally in both directions.

12A

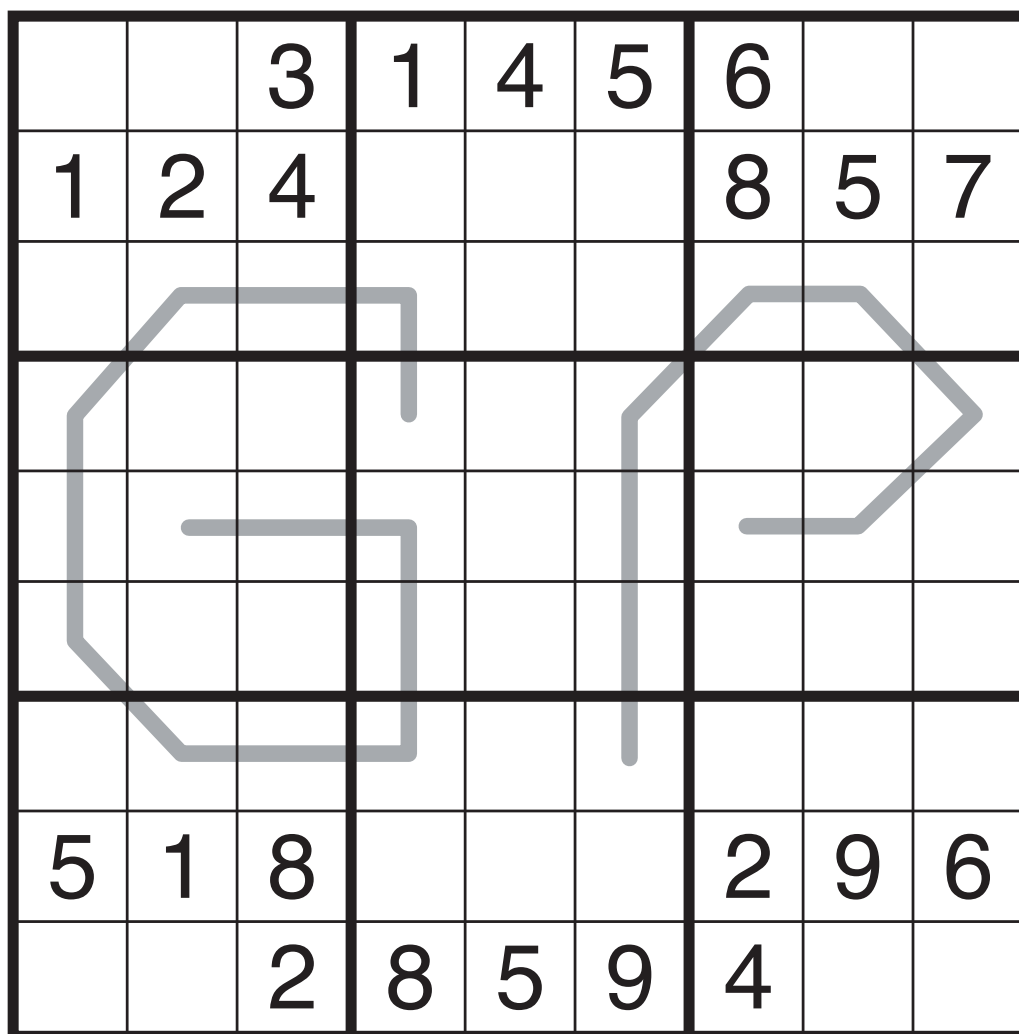
Answer Key: Enter the 4<sup>th</sup> row of digits, followed by the 8<sup>th</sup> row of digits.

12B



**7 Palindrome Sudoku**

Apply Classic Sudoku rules. Additionally, the numbers formed by the digits on the gray lines are palindromes meaning they can be read equally in both directions.



**8 Palindrome Sudoku**

Apply Classic Sudoku rules. Additionally, the numbers formed by the digits on the gray lines are palindromes meaning they can be read equally in both directions.

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

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

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



### 11 Sum Sandwich Sudoku (52 points)

Apply classic sudoku rules. Additionally, the clues outside the grid indicate all numbers placed in the corresponding direction that are the sum of the numbers placed in the two neighbouring cells in that direction, e.g. 132. If a number is not clued outside the grid, then it must not be the sum of its two neighbours in that direction.

	-	9	9	-	9	9	9	9	9
-					7				2
-				8					
11A → -			1				8		
5		4				8			
6	8				1				5
11B → 7				6				2	
8			5				4		
9						6			
-	4				5				

### 12 Palindrome Sudoku (42 points)

Apply classic sudoku rules. Additionally, numbers placed along marked lines must form a palindromic sequence, e.g. 12344321.

			2			7		6
				6			3	
12A →					5			4
	4					3		
		2						
12B →			5					
	2			8				9
		6					7	
	9		1			4		3



**7 Palindrome Sudoku**  
(35 points)

Apply classic sudoku rules.

Additionally, numbers placed along marked lines must form a palindromic sequence, e.g. 12344321.

7A →

7B →

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

**8 Anti-Knight Sudoku**  
(45 points)

Apply classic sudoku rules.

Additionally, numbers placed in cells related by a chess Knight's move (see the diagram) must be different.

	x		x	
x				x
		1		
x				x
	x		x	

8A →

8B →

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