

Calcudoku Puzzles

Volume 3

Hard

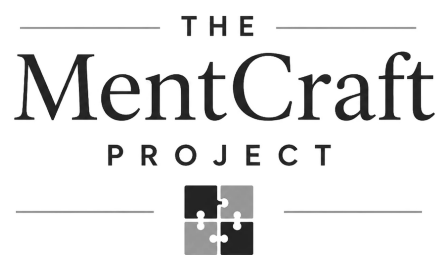


150 Puzzles + 10 Bonus Puzzles

8x8 & 9x9 Grids - Complete Answer Key
Unique Solutions - No Guessing Required

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Calcudoku Puzzles

Hard - Volume 3

160 Puzzles Including 10 Bonus Puzzles

For David

My son, you have a wonderful mind.
Always remain curious and never assume you know everything.

How to Get the Most Out of This Book

Every MentCraft collection is built on a simple belief: a mind that's challenged regularly stays sharper, more curious, and more capable. Different puzzles exercise different mental muscles, and Calcudoku has a special place in that family: it combines orderly number placement with arithmetic reasoning, asking you to see both the grid and the cages at the same time.

Each puzzle uses an $N \times N$ grid. Fill every row and every column with the numbers 1 through N exactly once. Thick-outlined cages show a target and, except for single-cell cages, an operation. The values inside a cage must combine to reach that target. Addition and multiplication cages may contain several cells; subtraction and division cages contain two cells and may be evaluated in either order. A one-cell cage simply fixes that cell's value.

Start with cages that allow the fewest arithmetic combinations, then compare those possibilities with what each row and column can still accept. Single-cell cages give immediate anchors, while small subtraction and division cages often narrow choices quickly. As values become fixed, revisit neighboring cages and let each deduction tighten the next. Strong Calcudoku solving is not about trial and error. It is about combining arithmetic with elimination until every placement follows from constraints you can trust.

This volume contains 150 Hard main puzzles followed by 10 bonus puzzles. The main section combines 75 8×8 grids with 75 9×9 grids, and the bonus section adds ten more 9×9 puzzles at the same verified Hard level. Every puzzle has one unique solution and has been independently verified to solve logically without guessing. Expect fewer obvious openings, larger candidate sets, and deductions that become useful only after several arithmetic and row-and-column relationships are tracked together.

Puzzle 1

Main - Hard - 8x8

11+		64x		56x	2	9+	
2-	19+				12+		19+
			3-				
40x		2		1-	4-		13+
5-	4	5-	8x		10x		
	14+			30x	13+		
32x		17+			13+		
					12+		

My Notes:

Puzzle 2

Main - Hard - 8x8

8+		28x		192x	1-	5/	
840x						5-	
	24x	11+			280x	16+	
						2	
4/	80x		36x		1-		2
		35x			15+		
8+	16+	6	80x		3-		126x
				2-			

My Notes:

Puzzle 3

Main - Hard - 8x8

14+			19+	7+		9+	5-
45x				7			
21+		7		960x			11+
		15x					
2x		7+		8	168x		
2/	11+		168x				16+
	2-		3+				
56x			14+			2/	

My Notes:

Puzzle 4

Main - Hard - 8x8

18+	70x	84x			12+		
			6+		1-	2-	
	21x	20+		2		11+	17+
2-			576x				
					20x		
13+		8	10+				11+
	6	84x		13+	4-		
7-					3/		

My Notes:

Puzzle 5

Main - Hard - 8x8

14+		3+		15+			8+
24x	16+		2	22+			
	2-				11+		16+
		18+			20+		
1	12+		17+			2/	2
14+		16+					17+
				7-			
72x				15+			

My Notes:

Puzzle 6

Main - Hard - 8x8

6+			192x			35x	
2-	8+		20+			11+	
	5	14+		4	48x		2-
280x				6x			
	1-		11+			192x	2
5-	12+			2-			
	864x		100x	16+			56x

My Notes:

Puzzle 7

Main - Hard - 8x8

4	17+		26+			2/	
210x		12+				15+	5+
		8+		36x			
42x					1-		3-
		13+		9+	42x		
11+			5+			7	17+
32x		5		576x		4-	
13+							

My Notes:

Puzzle 8

Main - Hard - 8x8

3+		3-		12+		2-	
14+		36x	1-		8	6+	
				8	22+		
17+			35x	5+		3+	
8/		15+		3-	1-		18+
24x	42x						
		8/		30x	14+		
5		7+			11+		

My Notes:

Puzzle 9

Main - Hard - 8x8

6x	14+		13+		1-	17+	
		10x	12x				6
			11+			56x	
2-		2	7/	10+		1-	
11+	6/			64x		1-	
	22+			22+		6+	
19+	5		12+				12x
					6/		

My Notes:

Puzzle 10

Main - Hard - 8x8

5-		17+		72x			1050x
7+	5+		8x		17+		
			7				
140x		2-	7+	24x	12x		14+
12+					224x		
		560x	5	14x	3/		
48x	24x					6x	
			13+			7	

My Notes:

Puzzle 11

Main - Hard - 8x8

7	48x	30x		2x		84x	
		10+	240x		15+		
4/						7	16+
4-	3-	16x		13+			
		15+			23+		3/
2-			11+			30x	
	3-	8x		20x			16x
2					1-		

My Notes:

Puzzle 12

Main - Hard - 8x8

160x		19+	4-		2/		18x
	5		9+		2-		
17+	7+				21+		
			448x	6+		280x	
				72x	5	9+	
224x							2/
	16+	16+		168x			
					6-		4

My Notes:

Puzzle 13

Main - Hard - 8x8

17+		6	20+			2-	240x
	10+				6x		
18+	11+		12+	6		4	
				8+	23+		
		12+			1-		42x
150x			8x				
	10+			336x			
3-			36x			40x	

My Notes:

Puzzle 14

Main - Hard - 8x8

21+	13+		13+	14x		6	8+
					16x		
	84x	6+		16+			48x
			7+		19+	2x	
3	15+	19+					48x
				18+	1		
8x	2/	56x	7-			105x	7+

My Notes: