

Calcudoku Puzzles

Volume 3

Expert

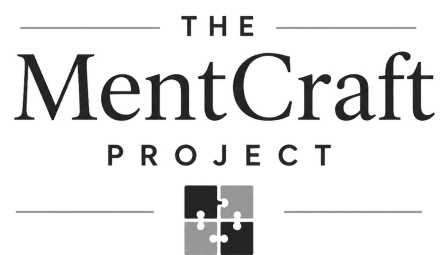


150 Puzzles + 10 Bonus Puzzles

10x10 Grids - Complete Answer Key
Unique Solutions - No Guessing Required

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Calcudoku Puzzles

Expert - 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 Expert 10x10 main puzzles followed by 10 bonus 10x10 puzzles at the same verified Expert level. Every puzzle has one unique solution and has been independently verified to solve logically without guessing. Expect dense interactions between cages, extended candidate relationships, and stretches where accuracy matters more than speed. Record useful combinations in My Notes, revisit earlier deductions when new information appears, and trust the constraints to lead you forward one sound step at a time.

Puzzle 1

Main - Expert - 10x10

2-	1	1-	13+	3-		9+		3-	
	5				80x		3/	28x	12x
5	3/	8	13+		13+				
1-		14+		8+		8	5	22+	
	25+			12+	2	12+			
27+		10+			2/		16+		
			42x		9-	120x		16+	4/
2	10+		120x	14+		5+			
3-					90x		8		17+
8	4/		8-				3-		

My Notes:

Puzzle 2

Main - Expert - 10x10

252x	23+	14+		32x		21x	16+		
				10x	2/		3-		19+
	12+		4			4-			
8	200x		18+	17+	13+	16x	9	10+	
							12+		6-
1-		16+				72x			
4-	12+	18+		4-		1-	10	16+	
			10+				168x	9	
2			3-	7+	28+			3/	
3-		9				1		6	4

My Notes:

Puzzle 3

Main - Expert - 10x10

5	3	18x	11+		8	22+			7
18+			7	14+			26+	10/	
		90x		13+					8
	14x		120x			1	23+		360x
6-		20+	5	3-				9+	
6	20x		14+	4+			18+		
210x					22+			14+	
	36x	40x		11+	1-				21+
		12+				60x		6+	
17+			6		30x				

My Notes:

Puzzle 4

Main - Expert - 10x10

20+		8x	450x	17+			9	6x	
315x					224x			24x	16+
	1-			3	14x				
	10	9+		15+		19+		16+	
12x		7+	13+		8		3/		
10					9	21+		4	56x
13+	10+	252x		45x	6	25+			
							7-	21+	
			19+	7-		48x			45x
4	11+				1				

My Notes:

Puzzle 5

Main - Expert - 10x10

11+		5-	240x		8+	1	35x		80x
10+	13+		8+			21+			
				9	17+		6-		4
19+	5	20+	10/		17+		5+		7
						3/		14+	
5-	2	480x	24+	9+		23+			1-
					70x		18+	2-	
19+	1	15+							6
			4-	1-	1-	7-	96x	3	6+
4									

My Notes:

Puzzle 6

Main - Expert - 10x10

22+			12x	7	180x	567x	2/		5
16+		14+						18+	
	8/			14+	7	8+			
18+		9			19+	17+		144x	
	21x	21+	15+			5+			25+
					10	10+		1	
8x			9	7+			18+		
5/		56x	7	360x		6		13+	
12+	9		7-			4-	24+		13+
	4-		3/						

My Notes:

Puzzle 7

Main - Expert - 10x10

14+		56x		6/		2-	20x		3/
18+			6-		56x		3-		
		9+				26+		120x	22+
12+		8x	21+				3/		
18+			54x	5/	13+				
	10	7				16+		2-	
8	3-		2/		1-			1	42x
7/		2/		3	20x	72x		2	
9+		20+		5-		42x	15+	15+	1-
12x					9				

My Notes:

Puzzle 8

Main - Expert - 10x10

22+		21+			7	9	9+		40x
2				9	15+	10+		70x	
20x	36x					11+			18+
	60x	3-	11+		6-	6x		6x	
			12+	2-		2-			
1296x	7-				160x	10	5	7/	
		22+		2		3	140x		
	1-			40x		6-		23+	3/
	42x	6-	40x		21+	4			
							12x		9

My Notes:

Puzzle 9

Main - Expert - 10x10

30x	6/	90x		11+		9+		1	6-
		10+		23+	9+	40x	40x	11+	
1512x		60x							
	17+		3-	24x			26+		3
				18+	60x			5+	
3	2x		7		72x	40x	27x	1-	6
2-	15+	4	40x						1
		23+		2	11+	27x		1-	
11+				9+			23+		
	7	2/				2	21+		

My Notes:

Puzzle 10

Main - Expert - 10x10

6x	10+	5	96x	7	6x		16+	16+	
		13+			2-	11+			9/
70x	3-			9			1-	2-	
		10x		10	3/				4-
5	19+	3/	11+			11+	9+	56x	
			10	4/					5
2/	1-	60x		1890x		5-		19+	
					2		15+		8
10x		14+	18+			280x			
11+			4-				6+		3

My Notes:

Puzzle 11

Main - Expert - 10x10

30x		2-	1-	2-		5-		5/	
13+				3/	160x		9x	17+	
	1080x					10+		18+	
14+		80x	17+	9/	8				
					6+		3	11+	1-
7-	2		10+	17+		2-			
	10	432x		4-		15+		17+	
120x	5		2	4	9	4-		10+	
	21x		14+		9+		10		1
		8x				8-		13+	

My Notes:

Puzzle 12

Main - Expert - 10x10

54x			17+			16x		22+	
36x			3-		126x		56x	8+	
11+		1-	1-		4				40x
17+			5-	3/		3-			
64x		8		3	20+		10+		6
	10+	900x				26+			13+
5			12+	9+			19+	8	
21+				15+				8+	
	126x		8	80x	5	2		26+	
					6	15x			

My Notes:

Puzzle 13

Main - Expert - 10x10

18+	8	63x		4	1-	12+		12+	
		7	80x				14+	9-	48x
24x	50x		13+			2-			
	19+		16+					12+	12x
15+			135x			10	8		
		11+	11+		20+		14+	4	3-
17+				18+	4-				
	11+	7+				9	14+		
2			22+	1	180x		19+	2/	2-
1	32x								

My Notes:

Puzzle 14

Main - Expert - 10x10

30x	4/	9+	900x		6/	22+			3x
						42x	32x	18+	
13+	13+	2	5+	4-					14+
				3+		50x	30x	9	
13+	5-	11+	270x					84x	
			7	18+		1-			
	1	3-			18+		2	15x	
11+	10	24x		2	5+		6/	2-	
	30x		22+		10+			4	20+
11+		1-			14+				

My Notes: