

KENKEN 6x6 CALCUDOKU: FOUR ARITHMETIC OPERATIONS

Fill Digits 1-6 Per Row and Column: Master Addition, Subtraction, Multiplication & Division Cages

DIFFICULTY / SPEC
Standard US Letter
Bespoke Printable

11+		120x		2/	
3-	9+		24x		
		1-		2/	5-
18+		6x			
	4-		3/	10+	
2/		3		1-	

6x6 KENKEN SOLVING AXIOMS

1. Latin Square Law: Fill each row and column with digits 1 through 6 exactly once without repetition.
2. Arithmetic Cages: Numbers within heavily outlined cages must produce the target clue using specified operator (+, -, x, /).
3. Operation Laws: Subtraction and division cages contain exactly 2 cells (order does not matter: e.g. 5-3=2).
4. Freebie Clues: Single-cell cages (e.g. [3]) are immediately filled with that specific digit.

FACTORIZATION SHORTCUTS:

- 120x (3 cells): must be {4, 5, 6} ($4 \times 5 \times 6 = 120$)
- 11+ (2 cells): must be {5, 6}

MATHEMATICAL FACTORIZATION & CANDIDATE ELIMINATION WORKSHEET

Row 1 Deduction: Cage '11+' takes {5, 6}. Cage '120x' takes {4, 5, 6}. Therefore, Col 0 & Col 1 cannot contain 4.

Cage '5-' (2 cells): In a 6x6 grid, only {1, 6} yields a difference of 5. Place candidate pair {1, 6}.

Cage '18+' (3 cells): The only 3-digit combination in 1-6 that sums to 18 is {5, 6, 7} (impossible) or duplicate digits.

MATHEMATICIAN LOG

Solver: _____

Logic Guild: Calcudoku

Date Attempted: _____

OPERATION AUDIT

- ☐ Addition Cages Verified
- ☐ Multiplication Factored
- ☐ Division & Subtraction OK

CALCUDOKU RATING

Solving Time: _____ Minutes

Zero Latin Clashes: OK

KenKen Rank: * * * * *

ARITHMETIC COMBINATORIAL SCRATCHPAD & CANDIDATE LOG: