

# Hapraker Press

## Free Sample Pack

*5 puzzle types, medium difficulty, verified to have exactly one solution each*

One puzzle of every kind Hapraker Press makes -- Sudoku, Kakuro, Calcudoku, Futoshiki, and Skyscraper. Every puzzle here is checked by machine to have exactly one solution before it's ever included. No guessing, no misprints, no shortcuts.

### What's Inside

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- Sudoku** — the classic 9x9 number grid
- Kakuro** — cross-sum clues, no repeats in a row or column
- Calcudoku** — cages of digits combined by math to a target
- Futoshiki** — follow the inequality arrows
- Skyscraper** — edge clues, hidden buildings

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**[hapraker.com](http://hapraker.com)**

# Sudoku

Medium

## HOW TO SOLVE

Fill every empty cell with a digit from 1 to 9.

Each row, each column, and each bold 3x3 box must contain every digit exactly once.

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

*Tip: start with the row, column, or box that already has the most numbers filled in.*

# Kakuro

Medium

## HOW TO SOLVE

Fill every white cell with a digit from 1 to 9. Each full row and each full column must add up to the clue number shown at its header, with no digit repeated within that row or column.

|    | 29 | 36 | 32 | 27 | 31 | 31 |
|----|----|----|----|----|----|----|
| 29 | 3  | 4  | 5  | 2  |    | 9  |
| 32 |    |    | 7  |    | 5  |    |
| 34 | 6  |    | 9  | 8  | 3  |    |
| 29 |    |    | 1  | 6  |    | 5  |
| 33 | 4  |    |    |    | 7  |    |
| 29 |    | 3  |    |    |    | 6  |

*Tip: a header clue with only one very high or very low possible sum narrows its row or column fast.*

# Calcudoku

Medium

## HOW TO SOLVE

Fill the grid so every row and column contains each digit exactly once (no repeats, no boxes -- just rows and columns). Each bold-outlined cage must produce its target number using the operation shown (+, −, ×, ÷), using only the digits in that cage.

|    |     |     |     |    |    |
|----|-----|-----|-----|----|----|
| 3  | 4   | 5   | 2   | 8+ | 5− |
| 5  | 6×  | 1   | 10+ |    |    |
| 4× |     | 18× |     | 5÷ |    |
|    | 13+ |     | 1−  |    | 1− |
|    |     | 2÷  | 5×  |    |    |
| 6× |     |     | 5   | 7+ |    |

*Tip: 1-cell and 2-cell cages are the most constrained -- solve those first.*

# Futoshiki

Medium

**HOW TO SOLVE**

Fill the grid so every row and column contains each digit exactly once. Where an arrow appears between two cells, it always points toward the smaller of the two digits — for example,  $3 > 1$  would show an arrow pointing at the 1.

|   |   |     |   |   |   |
|---|---|-----|---|---|---|
|   |   | > 5 |   |   |   |
|   | < | 6   | 3 |   |   |
|   |   |     | 4 |   | 1 |
| 6 |   |     |   | 4 |   |
| 2 |   | >   | 5 |   |   |
|   |   |     |   | 3 |   |

Tip: every row and column contains each number once. Arrows always point to the smaller number.

# Skyscraper

Medium

**HOW TO SOLVE**

Fill the grid so every row and column contains each digit exactly once, imagining each digit as a skyscraper of that height. Each number outside the grid tells you how many buildings are visible looking down that row or column from that side — a taller building hides any shorter ones standing behind it.

|   |   |  |   |  |   |
|---|---|--|---|--|---|
|   | 1 |  | 2 |  |   |
|   |   |  |   |  | 2 |
|   |   |  |   |  | 3 |
|   |   |  |   |  |   |
| 4 |   |  |   |  |   |
| 2 |   |  |   |  | 2 |

Tip: edge numbers show buildings visible from that side. Taller buildings hide shorter ones behind them.

# Solutions

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## Sudoku

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

## Calcudoku

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 3 | 4 | 5 | 2 | 6 | 1 |
| 5 | 3 | 1 | 4 | 2 | 6 |
| 4 | 2 | 3 | 6 | 1 | 5 |
| 1 | 5 | 6 | 3 | 4 | 2 |
| 2 | 6 | 4 | 1 | 5 | 3 |
| 6 | 1 | 2 | 5 | 3 | 4 |

## Skyscraper

|   |   |   |   |   |
|---|---|---|---|---|
| 1 | 5 | 2 | 3 | 4 |
| 5 | 4 | 1 | 2 | 3 |
| 3 | 2 | 4 | 5 | 1 |
| 2 | 1 | 3 | 4 | 5 |
| 4 | 3 | 5 | 1 | 2 |

## Kakuro

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

## Futoshiki

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 4 | 6 | 5 | 1 | 2 | 3 |
| 1 | 2 | 6 | 3 | 5 | 4 |
| 3 | 5 | 2 | 4 | 6 | 1 |
| 6 | 3 | 1 | 2 | 4 | 5 |
| 2 | 4 | 3 | 5 | 1 | 6 |
| 5 | 1 | 4 | 6 | 3 | 2 |