

Instructions

Complete the kakuro grids using standard rules for kakuro: use the digits 1 through 9, no repeated digits in a section of row or column between dark lines, and the digits must total to the sums provided.

Additionally, placement of digits in the dash-outlined 'spinners' must be done with 180 degree rotational symmetry.

The image contains two Kakuro puzzles. Each puzzle consists of a grid of squares with some squares shaded in black. The unshaded squares are further divided into two types: solid-outlined squares and dash-outlined squares (spinners). Numerical clues are provided for the start of rows and columns. The top puzzle has clues: 6, 4, 6, 7, 13, 19, 27, 10, 12, 15, 8, 11, 30, 23, 11, 9, 11, 14, 3, 21, 29, 23, 45, 10, 16, 13, 12, 12, 17, 7, 11, 16, 10, 17, 15, 25, 15, 18. The bottom puzzle has clues: 4, 13, 28, 14, 22, 16, 23, 19, 10, 30, 19, 23, 23, 16, 3, 16, 17, 38, 17, 24, 15, 9, 4, 45, 14, 6, 7, 6, 20, 6, 14, 12, 12, 8, 6, 17, 15, 16, 10, 25.