Suuroji Puzzles: Sudoku-like Logic with a Twist

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Abstract
During a break at a conference of the Southwest Association for Developmental Mathematics, I overheard a colleague say that he wished that Sudoku puzzles used more mathematics so that that he could use them in his classes. I was intrigued with the idea and set out to see if it was possible to combine the logic of Sudoku with some mathematics. Kakuro, or cross-sums, puzzles do use some math but I wanted a little more. Eventually, I came up with what I call Suuroji puzzles (Suuroji uses the beginning letters of the Romaji forms of the Japanese words for mathematics and logic). I have used them in my developmental classes as a way for students to practice some basic operations as well as factoring and problem solving.