Problem 1
Can you place the numbers 1 through 6 on the 6 dots so that the sum along each of the three sides is the same? How many ways are there to do this?

Problem 2
What if instead of \{1, 2, 3, 4, 5, 6\}, we use \{7, 8, 9, 10, 11, 12\}?

Problem 3
What if (using \{1, 2, 3, 4, 5, 6\}), we take the product along each of the three sides instead?

Problem 4
Can you place the numbers 1 through 9 in the 9 squares so that the sum of each row, column, and diagonal is the same? How many ways are there to do this?

Problem 5
Can you place the numbers 1 through 6 in a $2 \times 3$ grid so that the sum of each row and column is the same? How many ways are there to do this? What about the numbers 1 through 12 on a $3 \times 4$ grid? What about the numbers 1 through 20 on a $4 \times 5$ grid?