

**SMC Department of Mathematics  
Problem of the Week**

**Deadline: Monday April 20th**

**A Problem in Placing Letters:** Place 4 a's, 4 b's, 4 c's, and 4 d's in a 4-by-4 grid so that there are no identical letters in any row, column, or main diagonal. How many solutions are there?

**Prize:** The first person to submit a correct solution to Rena Levitt (Galileo 108B) will have their choice of many fine mathematical prizes. In addition, the person with the most correct submissions this semester will receive a prize at the end of the semester. The final deadline for submission is noon on Monday, Monday April 20th. Good Luck!