**Pentomino Maximization**

Black out a square in the grid and maximize the number of different pentomino tilings you can achieve.
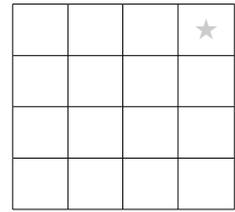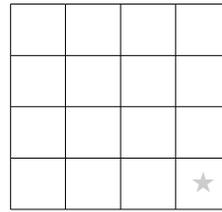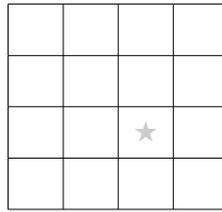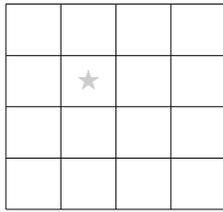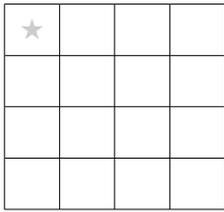
Puzzle created by David Millar on March 15, 2006.