

Homework 2

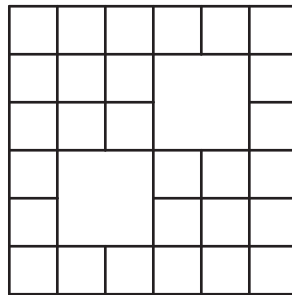
Combinatorics, Dave Bayer, due February 4, 2014

Name: _____ Uni: _____

| [1] | [2] | [3] | [4] | Total |
|-----|-----|-----|-----|-------|
| | | | | |

If you need more than one page for a problem, clearly indicate on each page where to look next for your work.

[1] How many paths are there from the lower left corner to the upper right corner of this grid, moving only up or to the right?



[2] How many ways are there to make change for 40 cents, using pennies, nickels, dimes and quarters?

[3] How many ways are there to choose three of the integers 1, 2, 3, 4, 5, 6, 7, 8 without choosing adjacent integers?

[4] There are three ways to cut a hexagon into two squares. How many ways are there to cut a 12-gon into five squares?