## Investigations in Teaching Geometry

## Hands-On Exploration #1

The Choc Full Chocolate Company has been selling so many candies that the management has decided to start placing candies in pre-packaged boxes and making the boxes of candies available to its customers. The company has ordered several different-sized boxes and is now trying to determine how many candies will fit in each size box.

Mr. I. M. Fattening, the owner of the company, has asked you to determine how many candies will fit in each box so he can price the boxes accordingly. He wants you to prepare a report which explains how you determined the number of candies for each box. Prepare a written report for Mr. Fattening.

## Materials needed:

- Pre-made boxes constructed from inch grid paper, folded so that the grid side of the paper is on the inside of each box. Box sizes include 2"X2"X4", 4"X4"X3", 6"X6"X2", and 8"X8"X1"—one set per pair of students.
- Inch cubes, 10--20 per pair of students.

To purchase the grid paper needed for this exploration, click on one of the vendors below:

- Office Max
- Office Depot
- <u>Staples</u>