## Math 118 - Dr. Miller - Activity \#1: Polyomino Perimeters

A polyomino is a shape made of several squares where each one touches the next along an entire side. Here are some examples:
pentomino
domino

triomino


1. There are exactly five different quadrominos (polynominos made of 4 squares). Draw them and also compute their perimeters.
2. Describe the shape of the quadromino with the smallest perimeter. Describe the shape of the quadromino(s) with the largest perimeter.
3. Draw four other pentominoes that have the same perimeter as this one:

4. Why is it impossible to find any other pentominoes that have the same perimeter as this one?

