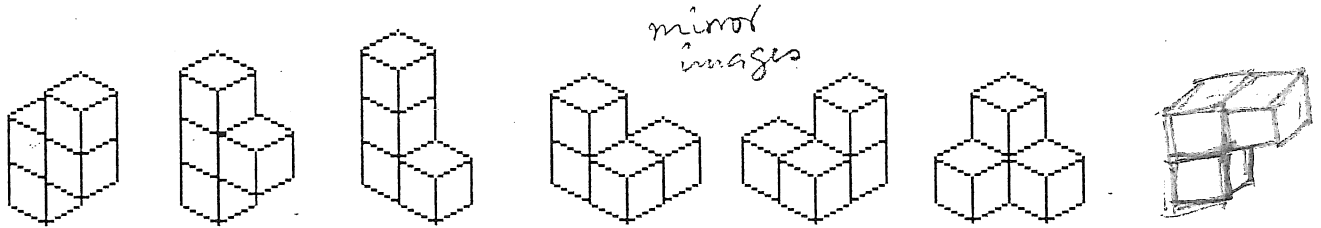


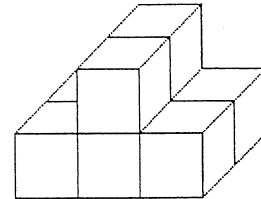
Soma Cubes

To begin this assignment, you must assemble a set of seven figures. One of the figures only requires 3 cubes to build, while the other six figures require 4 cubes each to build. Use the following pictures to assemble the remainder of the seven figures (note: figure number 7 has a fourth cube hidden behind the three shown. All together, that figure should look like a "corner")



Your first assignment involving these figures is to use all seven to assemble a large, 3X3X3 cube from them. Do *not* glue the 3X3X3 cube together. You will want to keep the seven figures separate and available for other assembly projects. At first, building the cube will seem very difficult. But give it time. There are many ways to succeed at this task. There are over 200 *different* ways to build a 3X3X3 cube out of the seven figures.

If you would like a simpler problem to "warm up" with, try assembling this shape by using only 2 of the seven figures:



Assembling the 3X3X3 cube is a pre-requisite for getting extra credit points for the rest of the figures.

On the next page are several *other* figures that can be built from the seven soma figures that you have used to build the 3X3X3 cube. Each of them is worth 1 extra credit point. To get this point, you must work the shape out *in class, under my observation*, from scratch. (From Scratch means without having any of the blocks assembled together to begin with.) You can get credit for a maximum of 1 shape per class.

