(This worksheet requires Zome tools, the erector set–like toys on the 9th floor.)

1. Make a square. How many vertices does it have? How many edges?

2. Make another, identical square. Connect it to your first square to make a cube. How many vertices does it have? Edges? Faces?

3. Make a 4-dimensional cube. How many vertices does it have? Edges? Faces? 3-faces? Show them to me.

4. How many vertices, edges, faces, 3-faces, and 4-faces will a 5-dimensional cube have?