

Worksheet 16

April 9, 2008

(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?