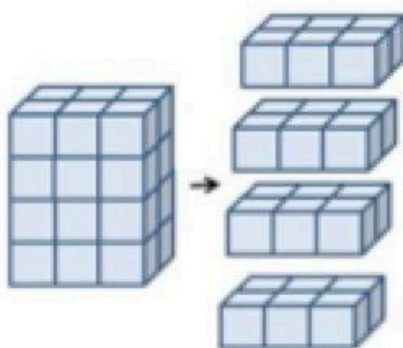# Explore volume by building with and counting unit cubes.

I can decompose a 3D shape into layers to understand volume.

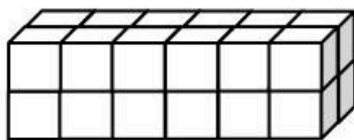The cube has 4 layers and 6 cubes in each layer. Therefor, 6 x 4 = 24. The volume of the shape is 24 cubes!

• Use the prisms to find the volume.
• Build the rectangular prism pictured below to the left with your cubes, if necessary.
• Decompose it into layers in three different ways, and show your thinking on the blank prisms.

Complete the missing information in the table.

a.

1. Number of Layers

2. Number of Cubes in Each Layer

3. Volume of the Prism