

Volume as Layers of Cubes



Name: _____ Date: _____

Use the material to work through each task. Show the requested response.

Count a layer then count layers

A prism 4 units long, 3 wide and 2 high has 12 cubes in each layer and 2 layers, for 24 cubic units.

1. How many cubes fit in a 5 by 3 bottom layer?

2. There are 4 layers of 15 cubes. Find the volume.

3. Find volume for length 6, width 2 and height 3.

4. A prism has volume 48 and a bottom layer of 12 square units. Find its height.

5. What kind of unit measures volume?

6. Explain why volume uses cubic units rather than square units.
