

Volume as Layers of Cubes



Use the matching sheet ID when checking answers.

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

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

Answer: 15

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

Answer: 60 cubic units

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

Answer: 36 cubic units

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

Answer: 4 units

5. What kind of unit measures volume?

Answer: cubic units

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

Look for:

- Connects length, width and height to three-dimensional space.

One possible response: Volume counts space in three dimensions; square units measure area.

Open responses use criteria and an illustrative response. Other well-supported responses can be acceptable.