## Mr. Baroody's Web Page



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## Volumes of Pyramids & Cones - Lesson 12-5

Here's the warmup!



Find the volume of the solid.

Today we're looking at the volume of pyramids and cones, which is based on the volume of prisms and cylinders:



See if you can do this example problem!

If the height of a right pyramid is 21 and the pyramid's base is an equilateral triangle with sides measuring 8, what is the pyramid's volume?

We should also look at an interesting ratio:



This theorem isn't really that complicated...to find the ratio of the cross sections, just find the ratio of the heights.