



Discovering Volume Formulas

1. Pick a two-dimensional shape and make 5 copies of it.
2. Stack your shapes and calculate the volume of this new three-dimensional object. Based on your example, think of a general formula for the volume of the shape formed.
3. Share your shape and volume formula with the rest of the class.
4. Look at this model where the cube is split into three equal shapes so that each has a full side of the cube. Find the volume of each one shape.
5. How would the volume formula change if instead of having a square base the pyramid had a rectangular base? Come up with a general formula for a pyramid with any shape base. Use your formula to find the volume of a cone.