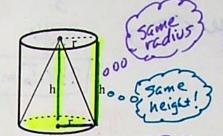
Volume of Cones

NOTES: To find the volume of a cone, substitute the measurements given for the cone into the correct formula and solve. Remember, volumes are expressed using cubic units, such as

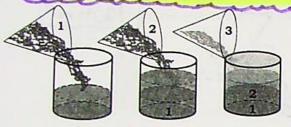
in3, ft3, m3, cm3, or units3.

Volume of a CONE

FORMULA: $V_{cone} = \frac{1}{3}\pi r^2 h$



In words: The volume of a cone equals one-third the volume of a cylinder with the same radius and height!







In a drawing of a cone inside a cylinder, you might see that that the triangular cross-section of a cone is the rectangular cross-section of the cylinder.

That is seeing the situation in only two dimensions.

Why do you suppose the volume (which is in three dimensions) turns out to be less than $\frac{1}{2}$ the volume of the cylinder? It actually turns out to be $\frac{1}{2}$!

Find the volume of the following cones. Leave answers in terms of π , then approximate to the nearest tenth using 3.14 for π /

