## 6.3-D- Volumes of Pyramids and Cones

The volume of any pyramid or cone is $1 / 3$ that of a prism of the same height and base.

$$
\begin{array}{cc}
\mathrm{V}=\frac{A_{b} \bullet h}{3} \\
\mathbf{V}_{\text {pyramid }}=\frac{A_{b} h}{3} & \quad \mathbf{V}_{\text {cone }}=\frac{\pi r^{2} h}{3}
\end{array}
$$

$$
\mathrm{V}_{\text {pyramid }}=\frac{A_{b} h}{3} \quad \mathrm{~V}_{\text {cone }}=\frac{\pi r^{2} h}{3}
$$

Ex 1: Find the volume


Ex 3: p. 199 \# 58
If Eric fills the plastic cup (shown below) to $\frac{3}{4}$ its height with lemonade, how much lemonade (in cl) will be poured into the cup?


## Practice:

page 198 \# 44,47,51
page 199 \# 52,56,


