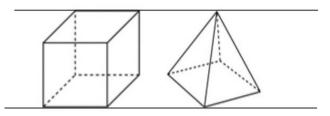
Sec 11-5

Volumes of Cones and Pyramids.

Given the square prism and square pyramid have the same Base and height.



How many pyramids will fill up the prism?

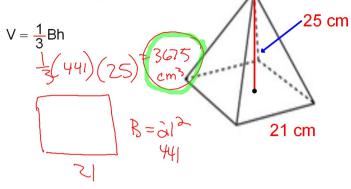
www.youtube.com/watch?v=rTs9HwWiBal

Volume of a Pyramid:

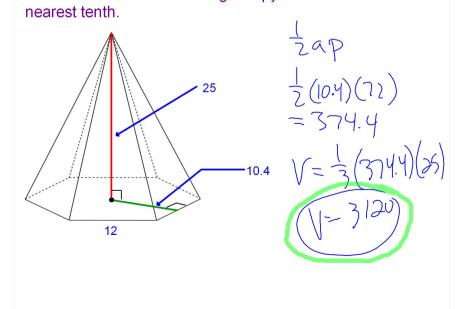
$$V = \frac{1}{3}Bh$$



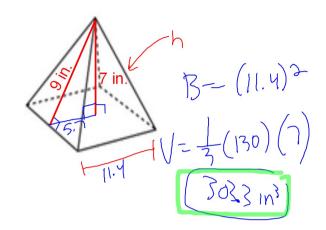
Volume of a Pyramid:



Find the volume of this hexagonal pyramid to the



Find the volume of this pyramid to the nearest tenth.



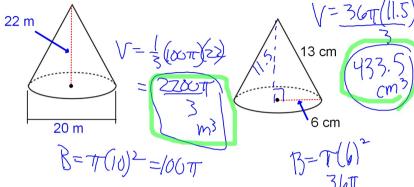
Volume of a Cone:

$$Vol = \frac{1}{3}Bh = \frac{1}{3}\pi r^2 h$$

Find the volume of each cone.

a) Leave your answer in terms of π

b) Give your answer to the nearest tenth



The radius of the base of a cone is 6 cm. If the volume of this cone is 180π cm³ find the height.

$$V = \frac{1}{3}\pi r^{2}h$$

$$\frac{180\pi}{T} = \frac{1}{3}\pi(6)^{2}h$$

$$180 = \frac{1}{3} \cdot \frac{3}{6}h$$

$$h = 15 \text{ cm}$$