

Volume of cone & pyramid

Cone volume is $\frac{1}{3}$ the volume of cylinder
(Takes 3 cones to fill 1 cylinder)

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

EX



* Round tenths

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

$$V = \frac{1}{3} \cdot 3.14 \cdot \underline{7^2} \cdot 10$$

$$V = \frac{1}{3} \cdot 3.14 \cdot \underline{49} \cdot 10$$

$$V = \frac{1}{3} \cdot \underline{3.14} \cdot 490$$

$$V = \frac{1}{3} \cdot 1538.6$$

$$V = \underline{512.9 \text{ in}^3}$$

Ex



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

$$V = \frac{1}{3} \cdot 3.14 \cdot \underline{2^2} \cdot 8$$

$$V = \frac{1}{3} \times 3.14 \times \underline{4} \times 8$$

$$V = \frac{1}{3} \times \underline{3.14 \times 32}$$

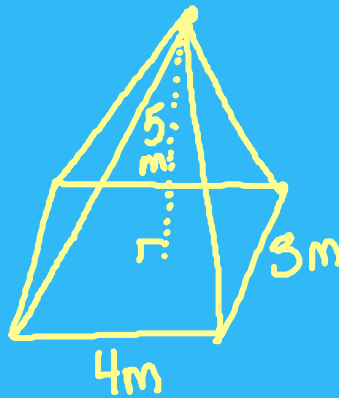
$$V = \frac{1}{3} \times 100.48$$

$$\boxed{V = 33.5 \text{ m}^3}$$

Pyramids - volume is $\frac{1}{3}$ the volume of rect. prism
(3 pyramids to fill 1 rect. prism)

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

↓
means to
find AREA
of base



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

$$V = \frac{1}{3} \times \underline{12} \times 5$$

$$V = \frac{1}{3} \times 60$$

$$V = 20m^3$$

B

$$A = lw$$

$$A = 4 \cdot 3$$

$$A = 12m^2$$

Ex



$$V = \frac{1}{3} Bh$$
$$V = \frac{1}{3} \times 10 \times 3'$$
$$V = 10 \text{ ft}^3$$

B A of Δ

$$A = \frac{bh}{2}$$

$$A = \frac{5(4)}{2}$$

$$A = 10$$

