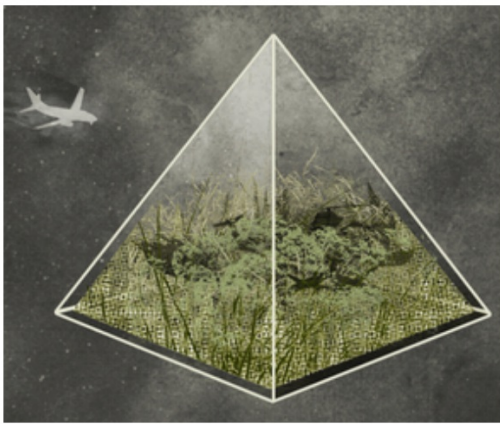


APRIL 21, 2015
STARTER

1st
2nd

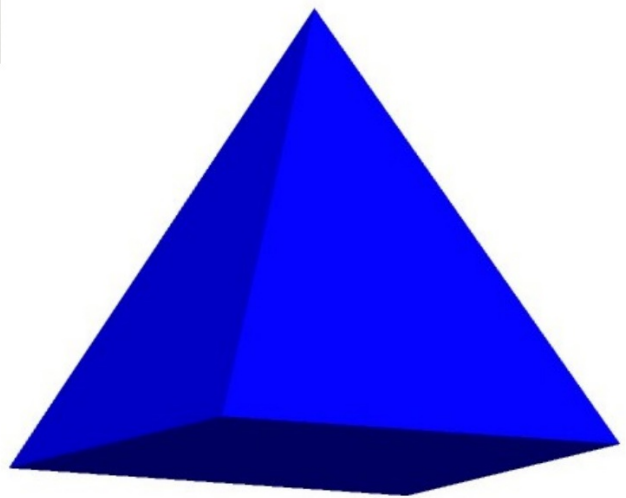
HAPPY NEW ONE

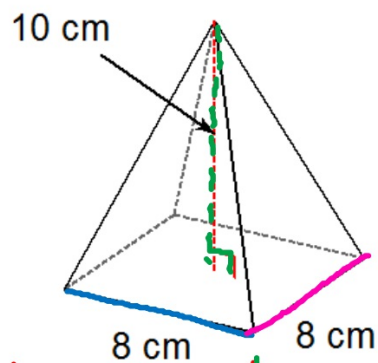
4/21 - Volume of Pyramids



$$V = \frac{1}{3} \underline{LWH}$$

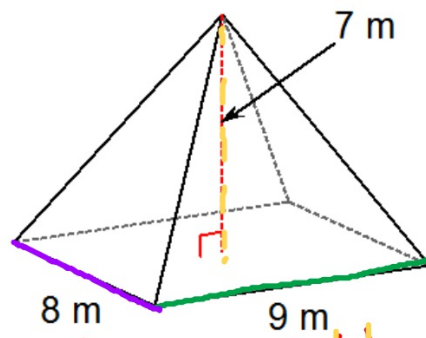
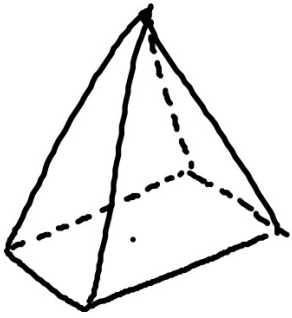
Area of
the base



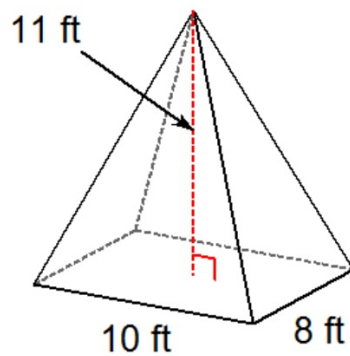


$$\begin{aligned} V &= \frac{1}{3} LWH \\ &= \frac{1}{3} \cdot 8 \cdot 8 \cdot 10 \\ &= \frac{1}{3} \cdot 640 \text{ cm}^3 \\ &= 213.3 \text{ cm}^3 \end{aligned}$$

$$640 \div 3 = 213.333333$$

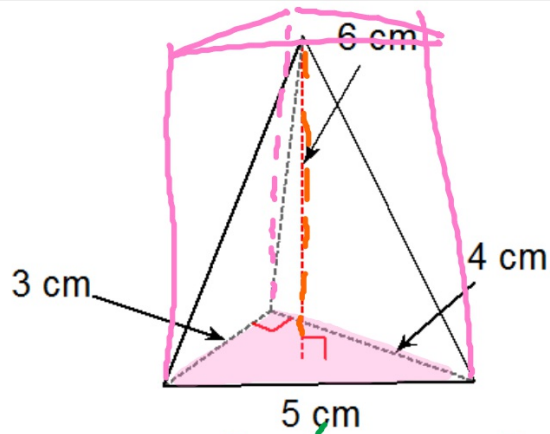


$$\begin{aligned} V &= \frac{1}{3} \cdot L \cdot W \cdot H \\ &= \frac{1}{3} \cdot 9 \cdot 8 \cdot 7 \\ &= 168 \text{ m}^3 \end{aligned}$$

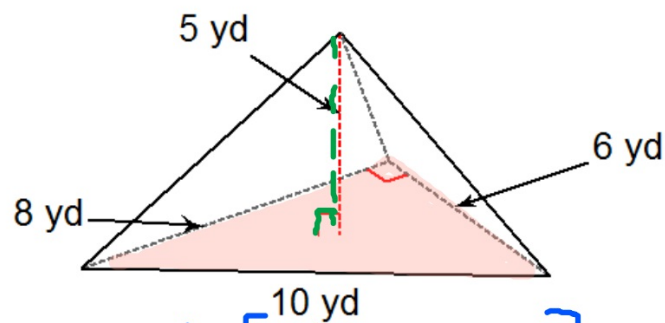


$$\begin{aligned} V &= \frac{1}{3} LWH \\ &= \frac{1}{3} \cdot 10 \cdot 8 \cdot 11 \\ &= 293.3 \text{ ft}^3 \end{aligned}$$

$$880 \div 3 = 293.333333$$



$$\begin{aligned} V &= \frac{1}{3} (\text{area of base} \cdot \text{Height}) \\ &= \frac{1}{3} \left(\frac{1}{2} b h \cdot H \right) \\ &= \frac{1}{3} \left(\frac{1}{2} \cdot 4 \cdot 3 \cdot 6 \right) \\ &= \frac{1}{3} (36) \\ &= 12 \text{ cm}^3 \end{aligned}$$



$$\begin{aligned}V &= \frac{1}{3} \cdot \frac{1}{2} bh \cdot H \\V &= \frac{1}{6} bhH \\&= \frac{1}{6} \cdot 6 \cdot 8 \cdot 5 \\&= 40 \text{ yd}^3\end{aligned}$$

$$\begin{aligned}V &= \frac{1}{3} \left[\left(\frac{1}{2} bh \right) H \right] \\&= \frac{1}{3} \left[\left(\frac{1}{2} \cdot 6 \cdot 8 \right) \cdot 5 \right] \\&= \frac{1}{3} \left[24 \cdot 5 \right] \\&= \frac{1}{3} \cdot 120 \\&= 40 \text{ yd}^3\end{aligned}$$

HOMWORK

Yellow WS4

DUE Wednesday