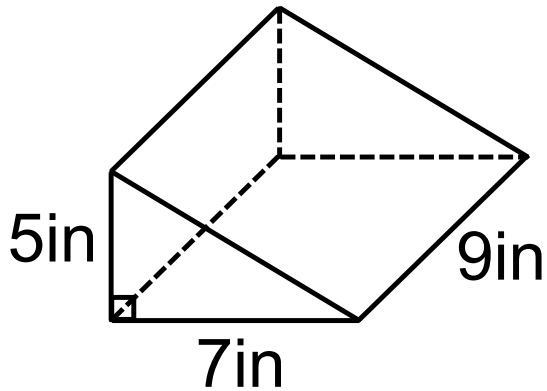


HW: Worksheet/1-3, 10-12

Warm up:

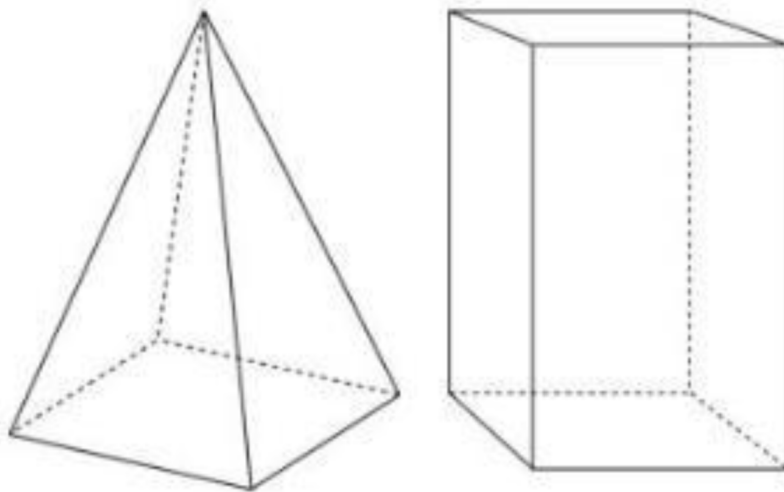
Find the volume.



$$\frac{1}{2} \cdot 7 \cdot 5 \cdot 9$$

$$157.5 \text{ in}^3$$

You have two containers. One is a prism the other is a pyramid. They both have the same height and the same size base. How many times larger is the volume of the prism?

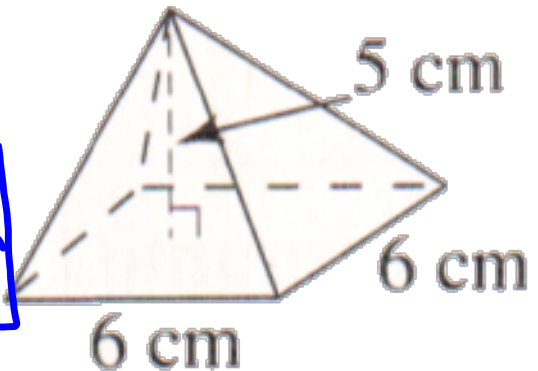


ACTIVITY

Pyramid

$$V(\text{prism}) = Bh$$

$$V(\text{pyramid}) = \frac{1}{3} Bh$$

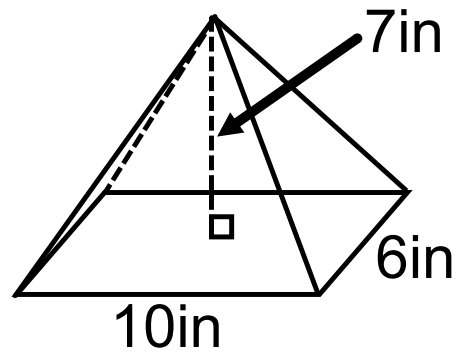


$$\frac{1}{3}(6 \cdot 6)(5) = 60 \text{ cm}^3$$

Find the volume.

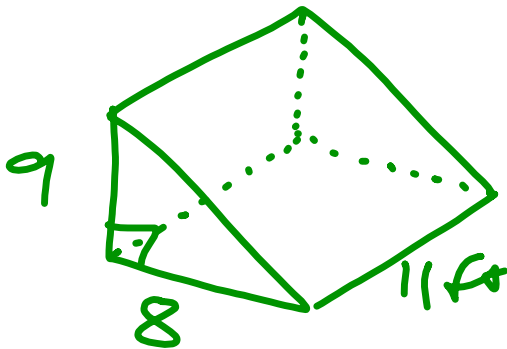
$$\frac{1}{3} (6 \cdot 10) (7)$$

$$140 \text{ in}^3$$



HW Solutions

(10)



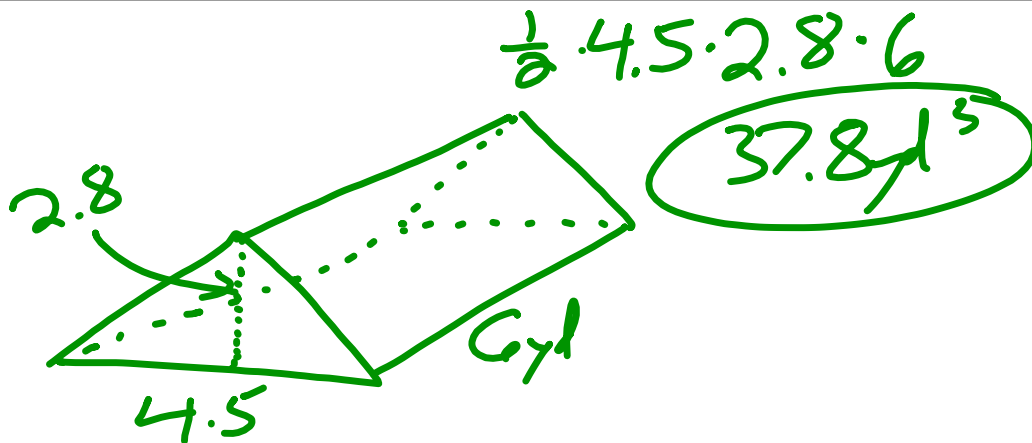
$$\frac{1}{2} \cdot 9 \cdot 8 \cdot 11$$
$$396 \text{ ft}^3$$

$$\textcircled{5} \quad 3 \cdot 2.5 \cdot 5 = 37.5 \text{ ft}^3$$

$$4 \cdot 3.5 \cdot 4.5 = 63 \text{ ft}^3$$

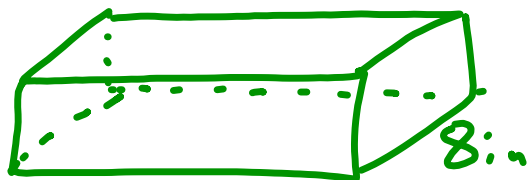
second cabinet

12



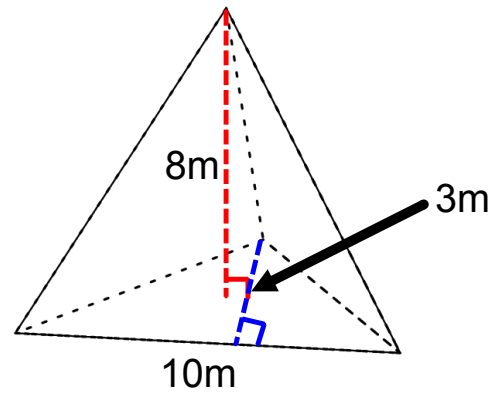
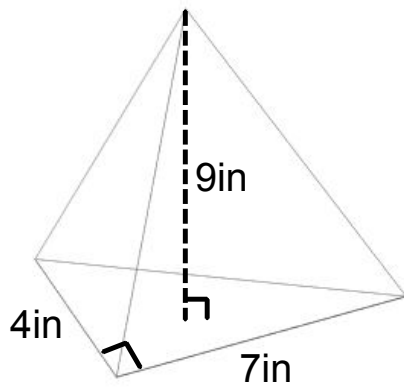
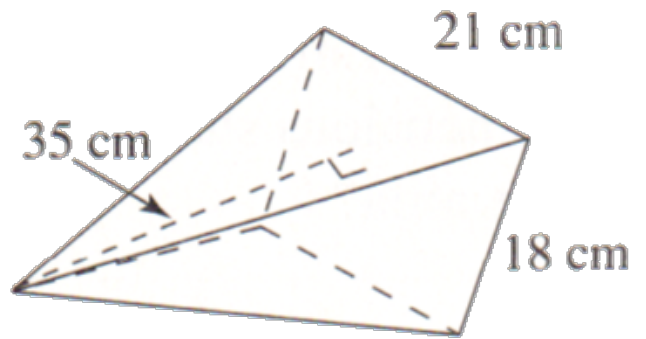
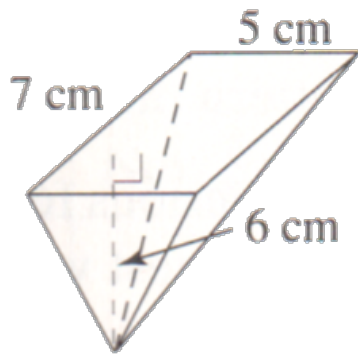
Q

6

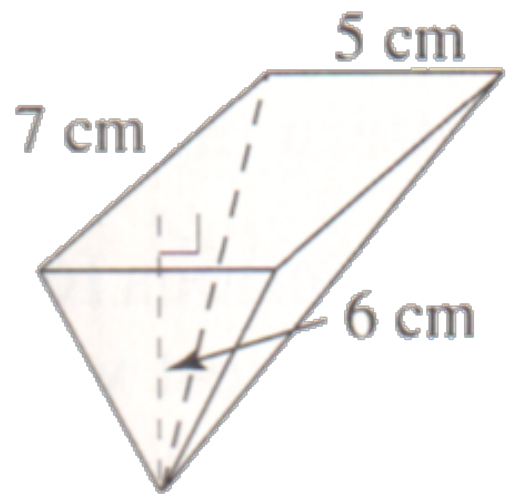


20

$$20 \cdot 6 \cdot 8$$
$$960 \text{ in}^3$$

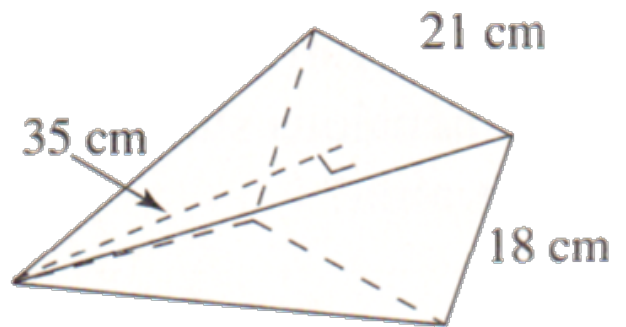


$$\frac{1}{3}(7.5)(4)$$
$$70 \text{ cm}^3$$



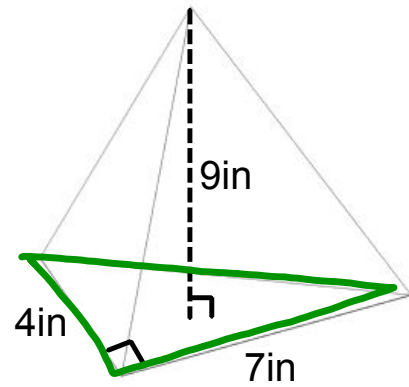
$$\frac{1}{3}(21 \cdot 18)(35)$$

$$4410 \text{ cm}^3$$



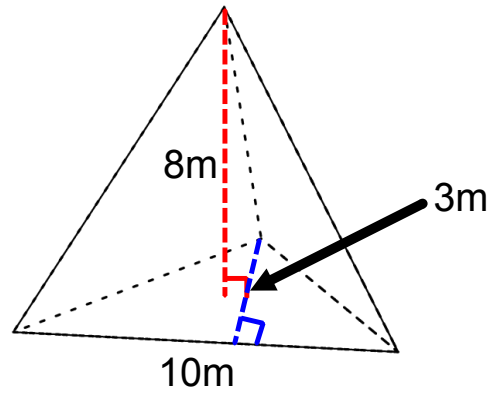
$$\frac{1}{3} \cdot \frac{1}{2} \cdot 4 \cdot 7 \cdot 9$$
$$\frac{1}{3} \cdot B \cdot h$$

$$42 \text{ in}^3$$



$$\frac{1}{3} \cdot \frac{1}{2} \cdot 10 \cdot 3 \cdot 8$$

40m^3



$$V(\text{pyramid}) = \frac{1}{3} B h$$

area of the base

height of pyramid

