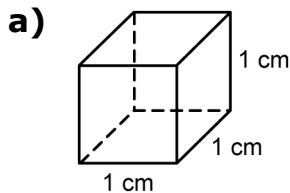


Practice (3.2)

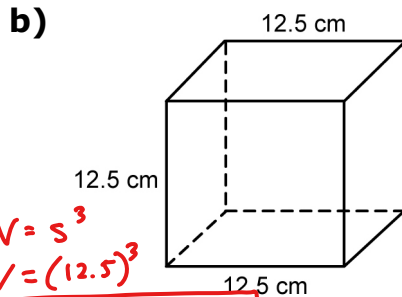
1. Determine the volume of each cube.



$$V = s^3$$

$$V = (1)^3$$

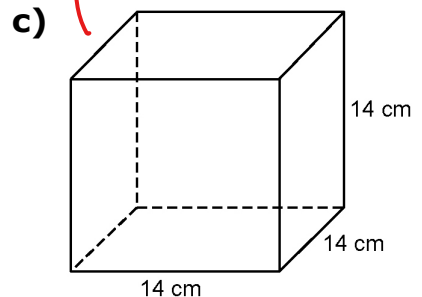
$$V = 1 \text{ cm}^3$$



$$V = s^3$$

$$V = (12.5)^3$$

$$V = 1953.1 \text{ cm}^3$$

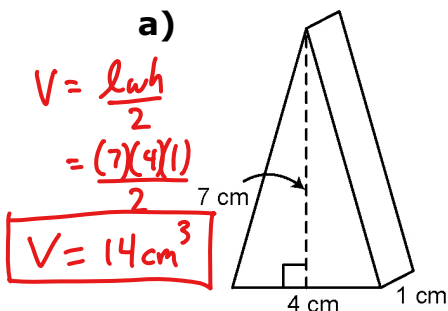


$$V = s^3$$

$$= (14)^3$$

$$V = 2744 \text{ cm}^3$$

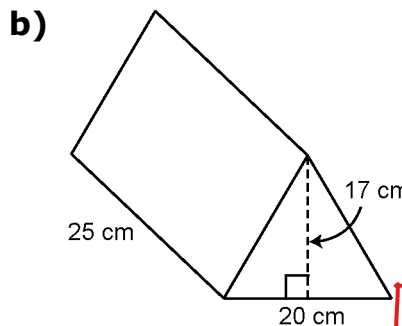
2. What is the volume of each right triangular prism?



$$V = \frac{lw}{2}h$$

$$= \frac{(7)(4)(1)}{2}$$

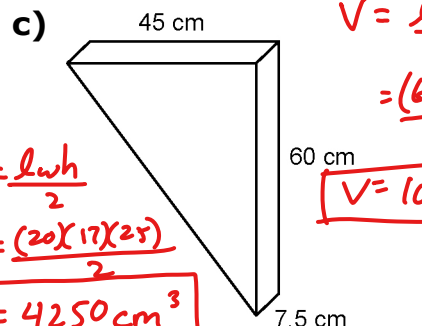
$$V = 14 \text{ cm}^3$$



$$V = \frac{lw}{2}h$$

$$= \frac{(20)(17)(25)}{2}$$

$$V = 4250 \text{ cm}^3$$

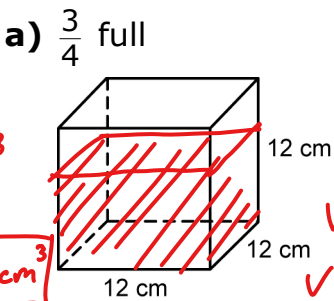


$$V = \frac{lw}{2}h$$

$$= \frac{(60)(45)(7.5)}{2}$$

$$V = 10125 \text{ cm}^3$$

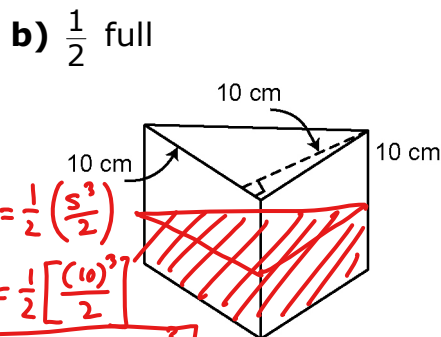
3. Determine the volume of the contents of each right prism.



$$V = \frac{3}{4} s^3$$

$$V = \frac{3}{4} (12)^3$$

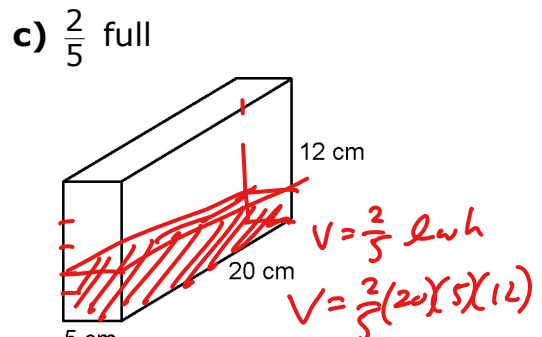
$$V = 1296 \text{ cm}^3$$



$$V = \frac{1}{2} \left(\frac{s^3}{2} \right)$$

$$V = \frac{1}{2} \left[\frac{(10)^3}{2} \right]$$

$$V = 250 \text{ cm}^3$$



$$V = \frac{2}{5} lwh$$

$$V = \frac{2}{5} (20)(5)(12)$$

$$V = 480 \text{ cm}^3$$

4. What is the area of the base of each right triangular prism?

a) volume = 90 cm^3 , height = 10 cm

a) $V = A_b h$

$$\frac{90}{10} = \frac{A_b (10)}{10}$$

$$9 \text{ cm}^2 = A_b$$

b) volume = 864 cm^3 , height = 6 cm

b) $V = A_b h$

$$\frac{864}{6} = \frac{A_b (6)}{6}$$

$$144 \text{ cm}^2 = A_b$$

c) volume = 1 cm^3 , height = 1 cm

c) $V = A_b h$

$$\frac{1}{1} = \frac{A_b (1)}{1}$$

$$1 \text{ cm}^2 = A_b$$