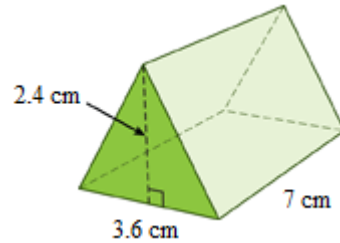
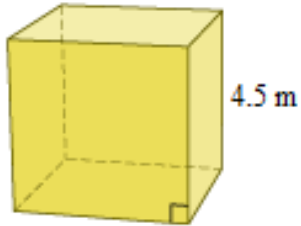
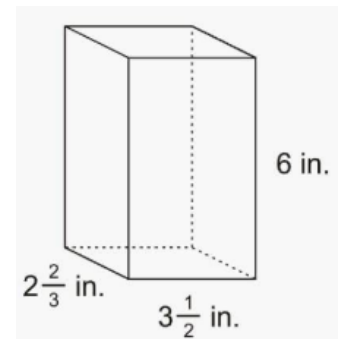


Show All Work – Formula, Substitute, Solve with Label

1. Find the Volume of the Following 3D Figures to the *nearest tenth*.



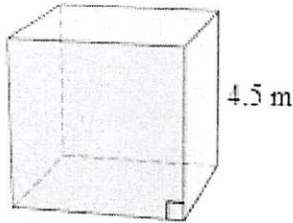
2. Find the Volume of the Rectangular Prism *in fraction form*.



3. A cereal box is half full with cereal. The volume of the entire cereal box is 192 cubic inches and the area of the base is 12 square inches. If every bowl of cereal decreases the height of the cereal in the box by 2 inches, how many bowls of cereal can you make?

Show All Work – Formula, Substitute, Solve with Label

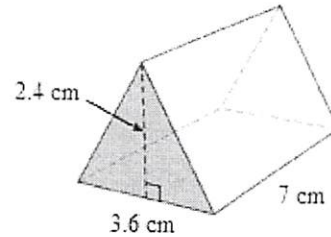
1. Find the Volume of the Following 3D Figures to the nearest tenth.



$$V = L \times W \times H$$

$$V = (4.5)(4.5)(4.5)$$

$$V = 91.1 \text{ m}^3$$



$$V = B_{\Delta} \cdot H$$

$$V = \frac{3.6 \cdot 2.4}{2} \cdot 7$$

$$V = 4.32 \cdot 7$$

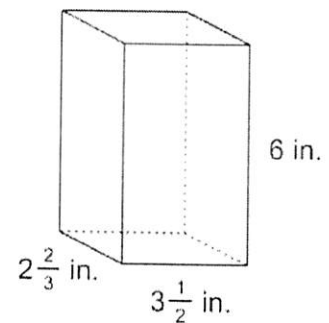
$$V = 30.24 \text{ cm}^3$$

2. Find the Volume of the Rectangular Prism in fraction form.

$$V = L \cdot W \cdot H$$

$$V = 6 \cdot 2\frac{2}{3} \cdot 3\frac{1}{2}$$

$$V = \frac{24}{1} \cdot \frac{8}{3} \cdot \frac{7}{2} = \frac{112}{2} = 56 \text{ in}^3$$



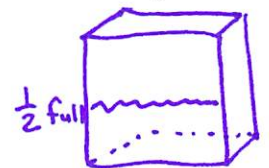
3. A cereal box is half full with cereal. The volume of the entire cereal box is 192 cubic inches and the area of the base is 12 square inches. If every bowl of cereal decreases the height of the cereal in the box by 2 inches, how many bowls of cereal can you make?

$$V = B \cdot H$$

$$\frac{192}{12} = \frac{12 \cdot H}{12}$$

16 in = Height of Full Box

	$\frac{1}{2}$ Full = 8 in
1 bowl	$- 2 \text{ in}$
2 bowls	$\frac{6 \text{ in}}{- 2 \text{ in}}$
3 bowls	$\frac{4 \text{ in}}{- 2 \text{ in}}$
4 bowls	$\frac{2 \text{ in}}{- 2 \text{ in}}$
	$\frac{0 \text{ in}}{0 \text{ in}}$



$$V_{\text{Full}} = 192 \text{ in}^3$$

$$B = 12 \text{ in}^2$$

$$H = ?$$