Lesson 14: Volume in the Real World

Problem Set

1. The volume of a rectangular prism is $\frac{21}{12} ft^{3}$, and the height of the prism is $\frac{3}{4} ft$. Determine the area of the base.
2. The volume of a rectangular prism is $\frac{10}{21} ft^{3}$. The area of the base is $\frac{2}{3} ft^{2}$. Determine the height of the rectangular prism.
3. Determine the volume of the space in the tank that still needs to be filled with water if the water is $\frac{1}{3} f$t. deep.

$$5 ft.$$

$$1\frac{2}{3} ft.$$

$$2 ft.$$

1. Determine the volume of the composite figure.

$$\frac{3}{4} m$$

$$\frac{1}{8} m$$

$$\frac{1}{3} m$$

$$\frac{1}{4} m$$

$$\frac{1}{3} m$$

1. Determine the volume of the composite figure.

$$1 in.$$

$$3 in.$$

$$2\frac{1}{2} in.$$

$$\frac{1}{4} in.$$

$$1\frac{1}{2} in.$$

$$1\frac{1}{4}in.$$

$$7\frac{1}{4} m$$

$$2 m$$

$$3\frac{1}{2} m$$

$$1\frac{1}{4} m$$

$$1 m$$

* 1. Write an equation to represent the volume of the composite figure.
	2. Use your equation to calculate the volume of the composite figure.