

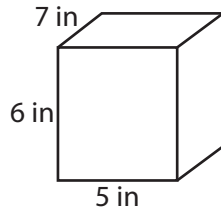
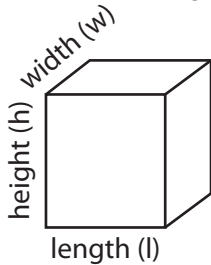
Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Volume Calculations Introduction # 1

**Volume** is the measure of space inside of a solid object.

Volume is measured in **cubic units** (**in<sup>3</sup>**, **yd<sup>3</sup>**, **cm<sup>3</sup>**, **ft<sup>3</sup>**).



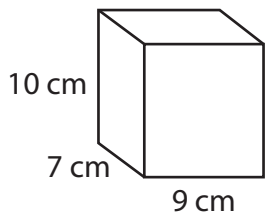
To find the volume of a rectangular prism, multiply the length (**l**) by the width (**w**) by the height (**h**).

$$\begin{aligned} l \times w \times h &= \text{Volume (V)} \\ (5 \text{ in} \times 7 \text{ in}) \times 6 \text{ in} &= \text{Volume (V)} \\ (35 \text{ in}^2) \times 6 \text{ in} &= \text{Volume (V)} \\ 210 \text{ in}^3 &= \text{Volume (V)} \end{aligned}$$

**Directions:** Calculate the volume of each solid using the equation  $l \times w \times h = \text{volume}$ .

1.

$$\underline{\quad} \times \underline{\quad} \times \underline{\quad} = V$$



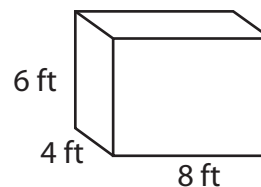
$$(\underline{\quad} \times \underline{\quad}) \times \underline{\quad} = V$$

$$(\underline{\quad}) \times \underline{\quad} = V$$

$$\underline{\quad} = \text{Volume}$$

2.

$$\underline{\quad} \times \underline{\quad} \times \underline{\quad} = V$$



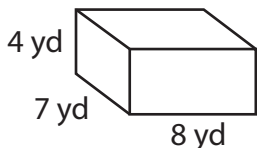
$$(\underline{\quad} \times \underline{\quad}) \times \underline{\quad} = V$$

$$(\underline{\quad}) \times \underline{\quad} = V$$

$$\underline{\quad} = \text{Volume}$$

3.

$$\underline{\quad} \times \underline{\quad} \times \underline{\quad} = V$$



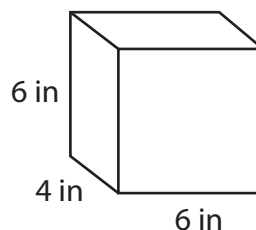
$$(\underline{\quad} \times \underline{\quad}) \times \underline{\quad} = V$$

$$(\underline{\quad}) \times \underline{\quad} = V$$

$$\underline{\quad} = \text{Volume}$$

4.

$$\underline{\quad} \times \underline{\quad} \times \underline{\quad} = V$$



$$(\underline{\quad} \times \underline{\quad}) \times \underline{\quad} = V$$

$$(\underline{\quad}) \times \underline{\quad} = V$$

$$\underline{\quad} = \text{Volume}$$