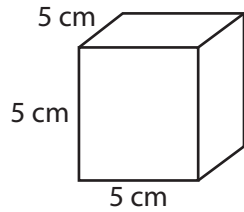
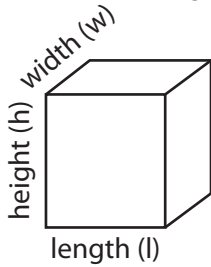


Volume Calculations Introduction # 4

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

Volume is measured in **cubic units** (in^3 , yd^3 , cm^3 , ft^3).



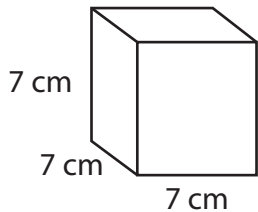
To find the volume of a rectangular prism, multiply the length (**l**) by the width (**w**) by the height (**h**).

$$\begin{aligned} l \times w \times h &= \text{Volume (V)} \\ (5 \text{ cm} \times 5 \text{ cm}) \times 5 \text{ cm} &= \text{Volume (V)} \\ (25 \text{ cm}^2) \times 5 \text{ cm} &= \text{Volume (V)} \\ 125 \text{ cm}^3 &= \text{Volume (V)} \end{aligned}$$

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

1.

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



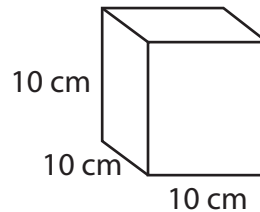
$$(\underline{\quad} \times \underline{\quad}) \times \underline{\quad} = V$$

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

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

2.

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



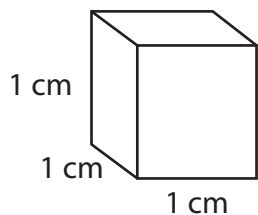
$$(\underline{\quad} \times \underline{\quad}) \times \underline{\quad} = V$$

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

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

3.

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



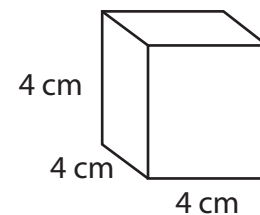
$$(\underline{\quad} \times \underline{\quad}) \times \underline{\quad} = V$$

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

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

4.

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



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

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

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