

Volume

The number of cubic units contained in an object's interior.

Cavalieri's Principle - If 2 solids have the same height and the same cross-sectional area at every level, then they have the same volume.

Volume

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Prism:
Cylinder:

$$V = Bh$$

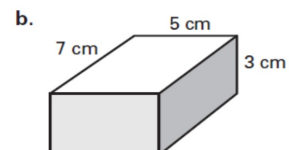
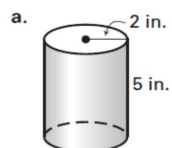
Area of the Base

height



EXAMPLE 1 Finding Volumes

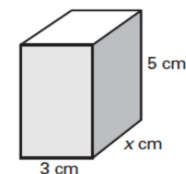
Find the volume of the right cylinder and the right prism.



EXAMPLE 2 Using Volumes

Use the measurements given to solve for x .

a. $V = 60 \text{ cm}^3$



b. $V = 475 \text{ ft}^3$

