Name _____

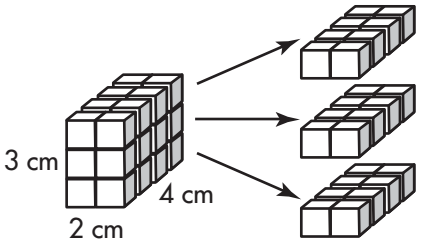
Reteaching
12-5

Volume

Volume is a measure of the space inside a solid figure. It is measured in cubic units. A **cubic unit** is the volume of a cube that has edges that are each 1 unit.

How to find the volume of a rectangular prism

Counting unit cubes:



Count the cubes in each layer: 8 cubes.

Multiply by the number of layers.

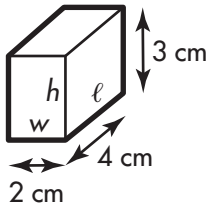
8 cubes $\times$ 3 = 24 cubes

The volume of each cube is 1 cm^3.

The volume of the prism is 24 cm^3.

Using a formula:

You know the length ℓ, the width w, and the height h. Calculate the volume, V, using the formula $V = \ell \times w \times h$.

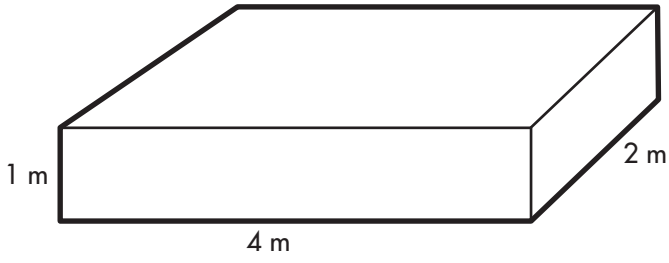


V = 4 cm $\times$ 2 cm $\times$ 3 cm

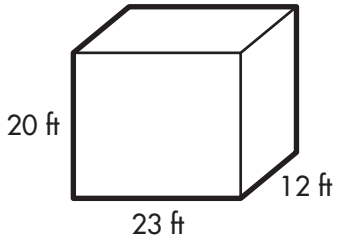
V = 24 cm^3

Find the volume of each rectangular prism using a formula.

1.



2.



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