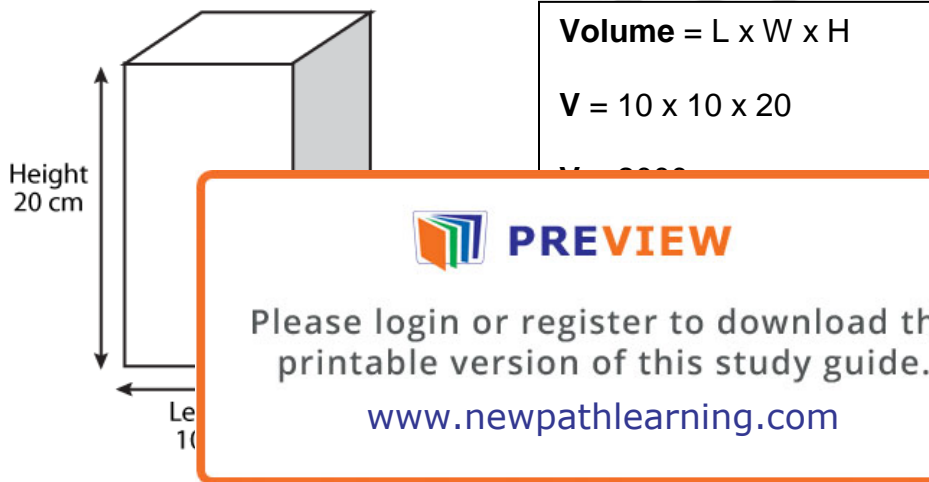# VOLUME/CAPACITY

What is volume?

Volume is the 3-dimensional size of an object, such as a box.

How to find the volume of a rectangular prism:

The volume of a rectangular prism can be found by the formula:

Volume =Length x Width x Height

Example:

Height
20 cm

Le
1(

Volume = L x W x H

V = 10 x 10 x 20

Try this!

3 in

3 in

15 in

8 cm

2 cm

2 cm
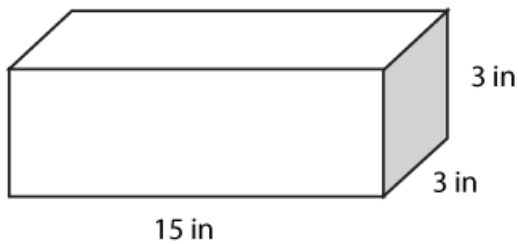
V = _____
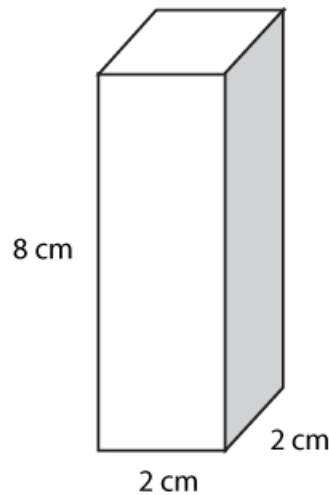
V = _____

What is capacity?

Capacity is the amount a 3-dimensional object can hold or carry. It can also be thought of the measure of volume of a 3-dimensional object.

How to determine capacity:

The common measures of volume in the U.S. system of measurements are:

tablespoons = 3 teaspoons
fluid ounces = 2 tablespoons, 6 teaspoons
cups = 8 fluid ounces, 16 tablespoons
pints = 2 cups, 16 fluid ounces
quarts = 2 pints, 4 cups
gallons = 4 quarts, 8 pints, 16 cups

- Convert gallons to pints by multiplying the number of gallons by 8.
- Convert quarts to pints by multiplying the number of quarts by 2.
- Add the ab_____gether.
- Perform th_____ of pints.
- Convert th_____
- The quotie_____he number of extra pints
- Convert th_____by 2.
- The quotie_____e number of pints.

Example:

Convert the following: **1** gallon =   _____ pints

                1 gallon = 8 pints

Try this!

Convert the following: **1** quart = _____ gallons

Convert the following: **3** gallons = _____ cups