## Length, Area, Volume, and Dimension

Let's revisit the ideas of length, area, and volume and see how they are different.
Length describes the size of something that is
Area or surface area describes the size of something that is
Volume describes the size of something that is
Examples of things that are one-dimensional, two-dimensional, and three-dimensional:  one-dim: line segment, edge of circle, equator, where walls mee the corner of a room two-dim: disk, interior of square, rug, surface of the earth three-dim: merror of a sphere, cube, etc.
an object
Perimeter measures the length around the edge of and is a me-dimmeasurement.
When we measure area or surface area of an object, we are answering questions such as  How many one ft by one ft squares do we need  to cover this object?
When we measure the volume of an object, we are answering questions such as
How many cups of water do we need to fill this object?
How many I am by I am by I am aubes do we need to
Ell this object?