





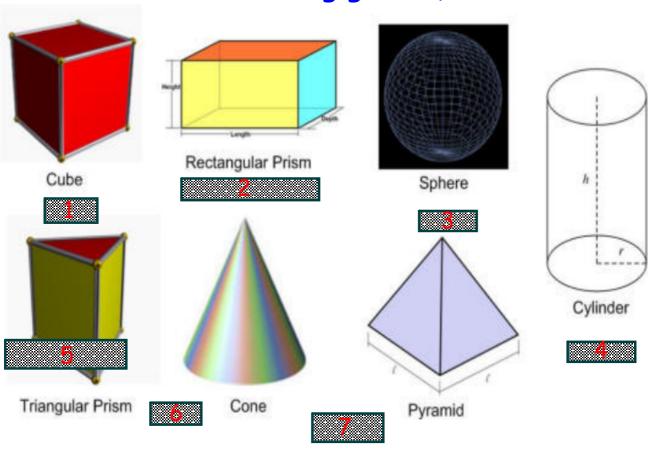
Backgound Information

Toys, foods and clothing all are packaged into boxes. These packages can be any shape or size.

Sometimes the shape and dimensions (width, depth, and height) are determined by the shape and dimension of the product. But sometimes the shape and dimensions depends on the most economical container.

Contents that have no shape (Cereal, oil)

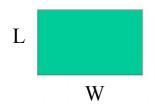
The naming game:)



Area of Shapes

Area of a Rectangle

A = length x width

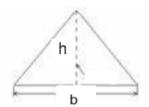


Area of a Circle



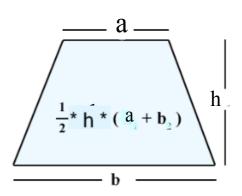
Area of Triangle

$$A = \frac{1}{2}$$
 (base x height)

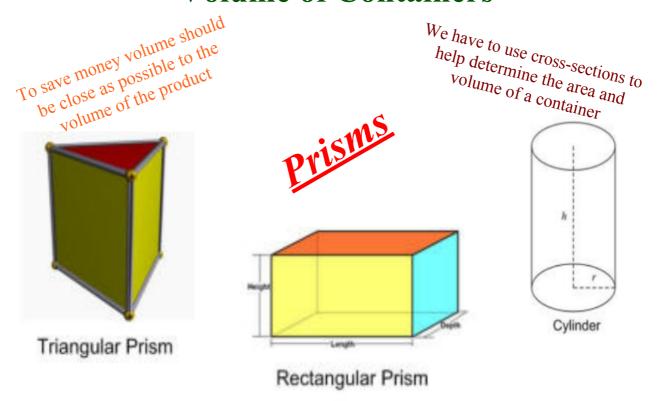


Area of Trapezoid

$$A = \frac{1}{2} \text{ height}(a + b)$$

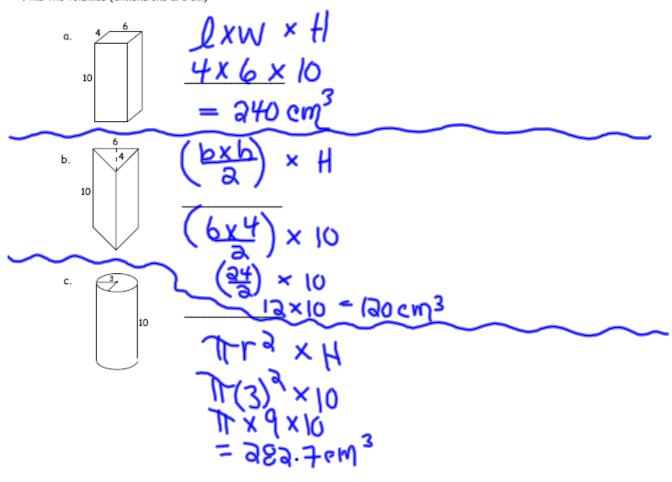


Volume of Containers



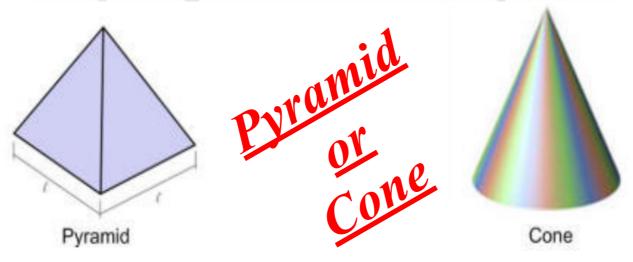
Volume = $(Area of the base) \times Height$

Find the volumes (dimensions are cm):

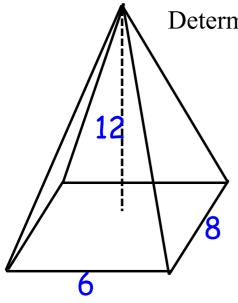


$$V = \frac{4}{3}\pi r^3$$

Anything that comes to a point !!



$$V = \frac{1}{3} (Area of base) x Height$$



Determine the Volume

Step 1) Find the area of the base

Step 2) This is a pryamid.

Use the equation to find volume.

$$\frac{48 \times 12}{3}$$
 = 192cm³

A "DrumStick" icecream bar has the following dimensions shown. What is the volume?

