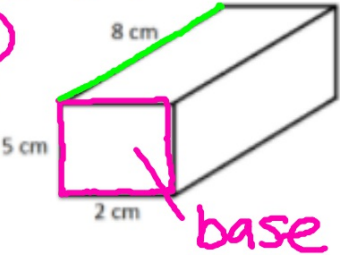
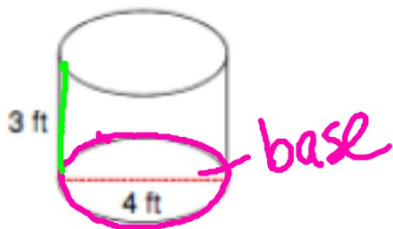


Volume - has Cubed units

3D Shape	Formula (Area of base)(height) Example
Rectangular Prism Stefan's Box Building Cereal box Shoe box	<p>Area of b: $5 \times 2 = 10$</p> <p>$10(8) = 80 \text{ cm}^3$</p> 



Cylinder



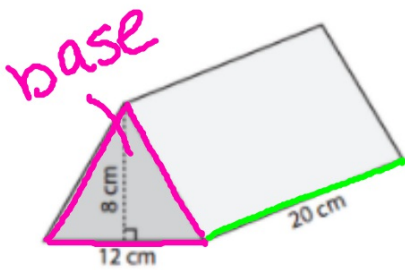
$$\text{Area of } b: \pi(2)^2 = 12.57$$

$$12.57(3) = 37.71 \text{ ft}^3$$

Soda can
Oatmeal box
toilet paper roll
Wipe container
Salt shaker



Triangular Prism - has rectangular sides



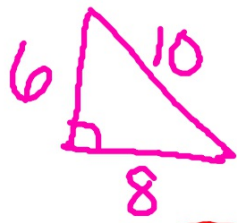
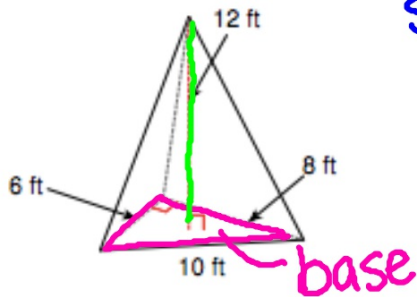
$$\text{Area of } b: \frac{1}{2}(12)8 = 48$$

$$48(20) = 960 \text{ cm}^3$$

tent
roof
cheese
blade of axe



Pyramid - has triangular sides



$$\text{Area of } b: \frac{1}{2}(6)(8) = 24$$

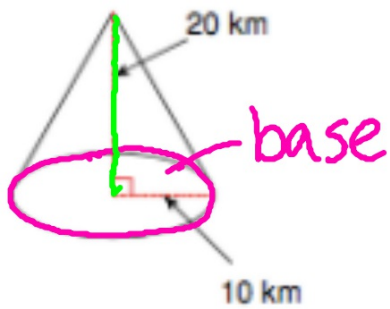
$$24(12) = \frac{288}{3} = 96 \text{ ft}^3$$

Pyramid
toblerone

★ Divide by
3 ★



Cone



ice cream cone
birthday hat
traffic cone
hershey kiss

$$\text{Area of b: } \pi(10)^2 = 314.16$$

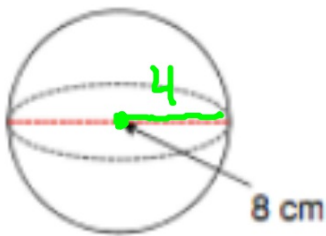
$$314.16(20) = \underline{6283.2}$$

Divide by 3

$$= \frac{6283.2}{3} = 2094.4 \text{ Km}^3$$



Sphere



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



$$\frac{4}{3}(\pi)(4^3)$$

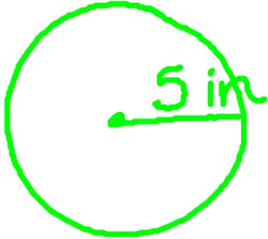
$$= 268.08 \text{ cm}^3$$

Globe
Soccer ball
basketball

Finding Volume

Names: (1) _____ (2) _____

Directions: You and your partner are responsible for finding the volume of three objects in the room. Sketch a picture of the object and label the key information including units. Record the proper name and find the volume.

Sketch of Object in Room	3D Shape Name	Volume
 <p>A hand-drawn circle representing a sphere. A horizontal line segment extends from the center to the right edge, labeled "5 in". Below the circle, the word "Globe" is written in green cursive.</p>	Sphere	
<input type="checkbox"/>		

Homework is Page 7.3 in Packet