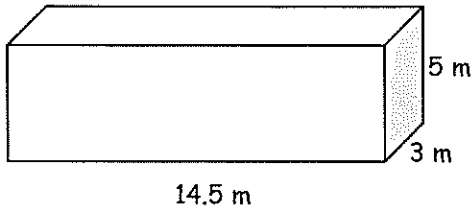
Name: _____ Units: _____ Date: **3/5/12**

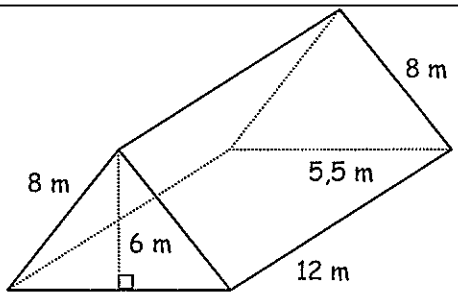
Volume of Prisms and Cylinders Worksheet

1.)



Area of Base: **Volume:**

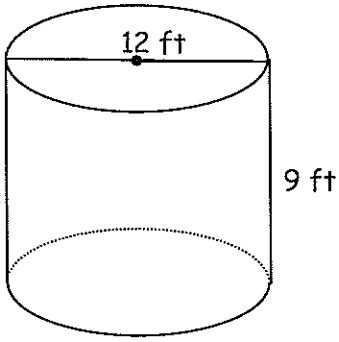
2.)



Area of Base: **Volume:**

3.)

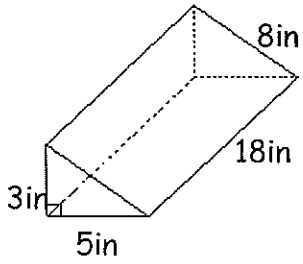
Area of Base:



Volume:

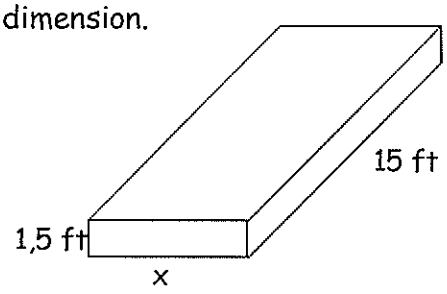
4.)

Area of Base:

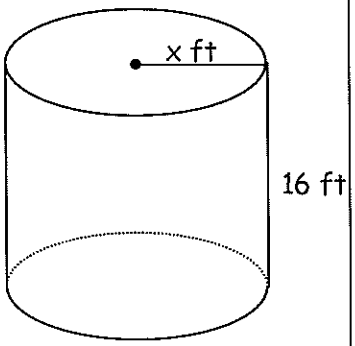


Volume:

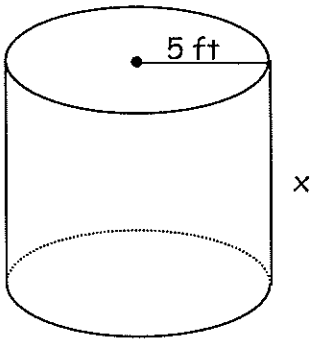
5.) If the volume of the figure below is $135ft^3$, find the missing dimension.



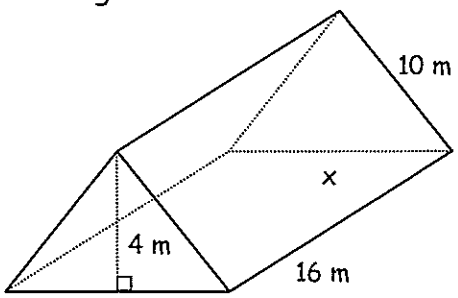
6.) If the volume of the figure below is $4{,}069.44\ ft^3$, find the missing dimension.



7.) If the volume of the figure below is $902.75ft^3$, find the missing dimension.



8.) If the volume of the figure below is $224m^3$, find the missing dimension.



9.) Cameron makes a glass cylinder that has a diameter of 6 in. and a height of 5 in. for a friend. He wants to send it to his friend in a box that is 6 x 6 x 5. He wants to put the cylinder in a box and wrap it with packing foam. How much packing foam does Cameron need?

10.) The radius of a cylinder is 3 m and the height is 4 m.

a.) What is the volume of the cylinder?

b.) If you double the radius, what is the new volume?

c.) How do these two volumes compare? Why do you think this happens?