

**VOLUME AND TOTAL SURFACE AREA OF PRISMS & CYLINDERS**

**TSA:** TSA is the \_\_\_\_\_ of a three dimensional object and is found by the \_\_\_\_\_ of all of the \_\_\_\_\_, or sides, of the figure.

- Use 4 steps for "area sub-problems":*
1. Picture Equation
  2. Formulas
  3. Simplify
  4. Answer (exact and approximate)

*This will help to justify your work and communicate your strategy clearly.*

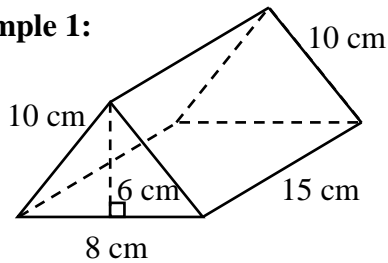
**Volume:** For any figure that has two \_\_\_\_\_ bases (that is, the figure could be formed by stacking many thin "slices" of the exact same shape all the way through):

$$\mathbf{V =}$$

*NOTE: The base is NOT always located on the "bottom" of prisms!!!*

In figures that can be dissected this way, the two bases are connected by \_\_\_\_\_:  
\_\_\_\_\_, \_\_\_\_\_, or \_\_\_\_\_.

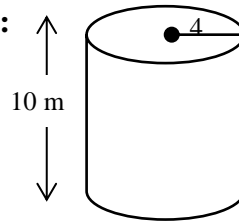
**Example 1:**



V =

TSA =

**Example 2:**



V =

TSA =