Use the 4 steps for "area sub-problems":

- 1. Picture Equation
- 2. Formulas
- 3. Simplify
- 4. Answer (exact and approximate)

## PRISMS:

 $Volume = (Area of Base) \bullet Height$ 

Total surface area is the sum of the areas of all faces (or sides)

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

The <u>bases</u> of a prism are the <u>two congruent faces</u> that are on <u>opposite sides</u> of the prism, and these two faces are <u>connected by parallelograms</u>, <u>rectangles</u>, <u>or rhombi</u>.



## **CYLINDERS**:

