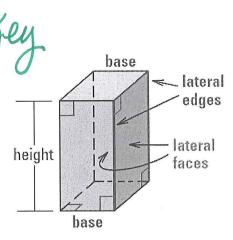
Basic Surface Area and Volume of Prisms - Notes

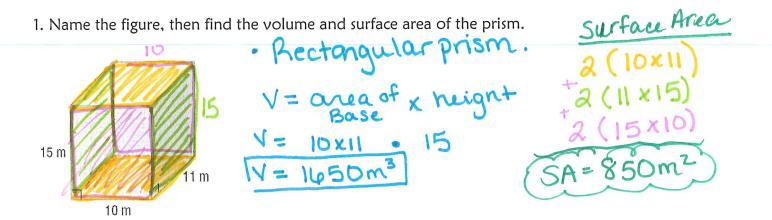
A **prism** is a polyhedron with two congruent faces, called **bases**, that lie in parallel planes. The other faces, called **lateral faces**, are parallelograms formed by connecting the corresponding vertices of the bases. The segments connecting these vertices are *lateral edges*.

The *altitude* or *height* of a prism is the perpendicular distance between its bases. In a **right prism**, each lateral edge is perpendicular to both bases. Prisms that have lateral edges that are not perpendicular to the bases are **oblique prisms**. The length of the oblique lateral edges is the *slant height* of the prism.



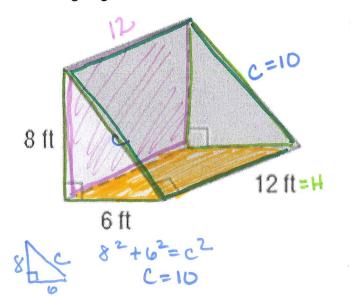
Right rectangular prism

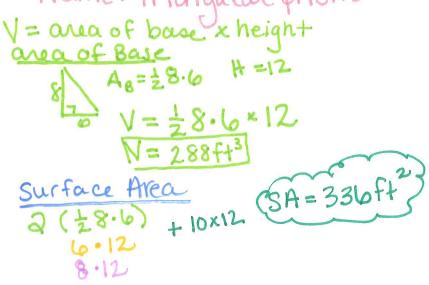
| Surface Area: Add up all of the faces and bases | Lateral Area: Add up all of the faces but NOT bases | Volume: V=BH B = AREA of BASE and H= Height connecting two bases. |
|---|---|--|
|---|---|--|

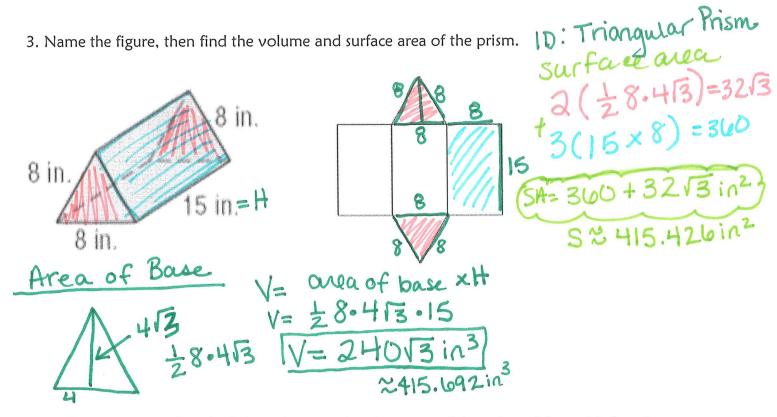


2. Name the figure, then find the volume, lateral area and surface area of the prism. Hint: find the missing edge 1st.

Name: Hint: find the prism. Hint: find the missing edge 1st.







4. Name the figure, then find the volume and surface area of the prism. 6 in = side length.

