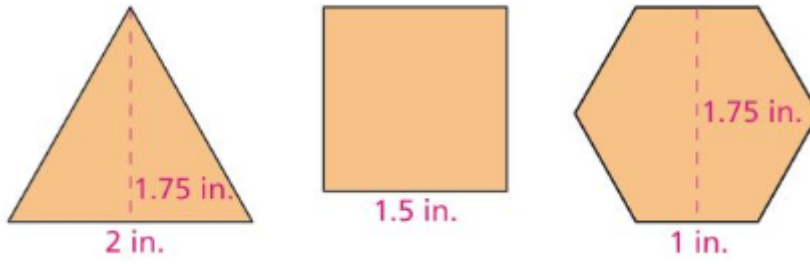


Hwk #4 – Surface Area of Prisms (Inv. 2.1)

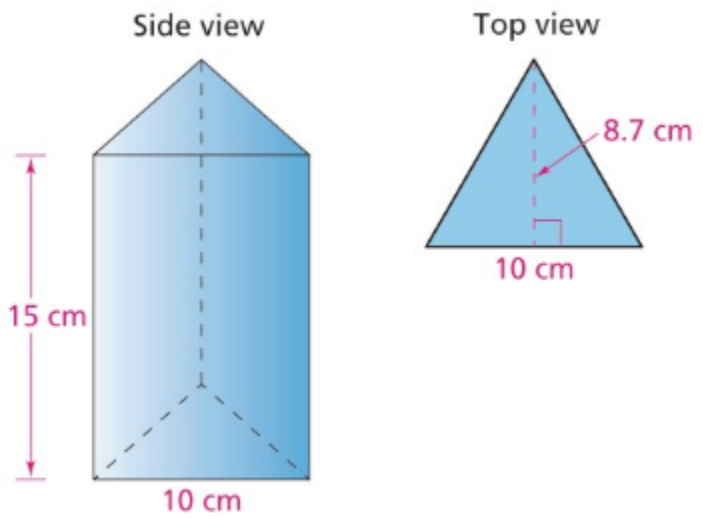
1. Darius and Mariana made paper prisms from 4 inch-by-6 inch pieces of paper. One has an equilateral triangle for its base, another has a square base, and the third has a regular hexagon for its base. The height of each prism is 4 inches.

To find the areas of the base and top polygons, they traced and measured those figures, as accurately as they could, to get the data shown below. (The figures are not drawn to scale.)



- a) What are the areas of the sides of each prism?
- b) What are the perimeters of the bases (and tops) of each prism?
- c) What are the areas of the bases (and tops) of each prism?

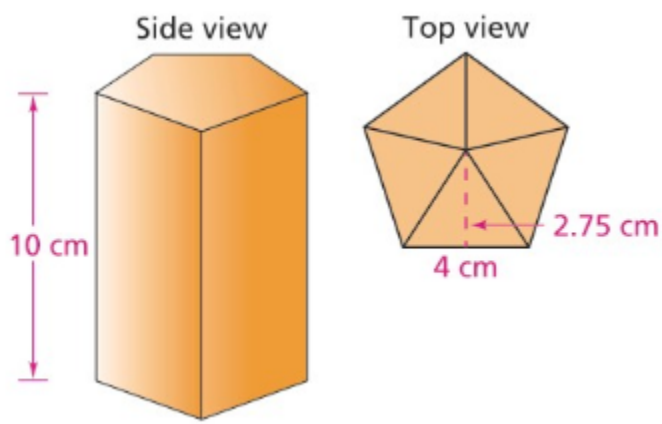
1. Side and top views of a prism whose base and top are equilateral triangles are shown below.



a) What is the surface area of the prism?

b) What is the volume of the prism?

2. The sketch below shows side and top views of a prism with a base and top that are regular pentagons.



a) What is the surface area of the prism?

b) What is the volume of the prism?