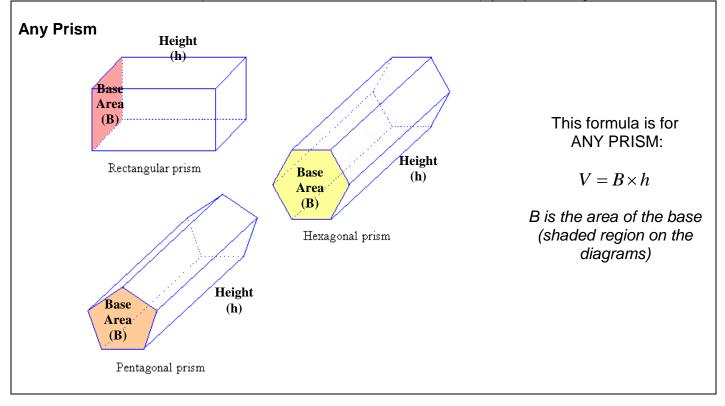
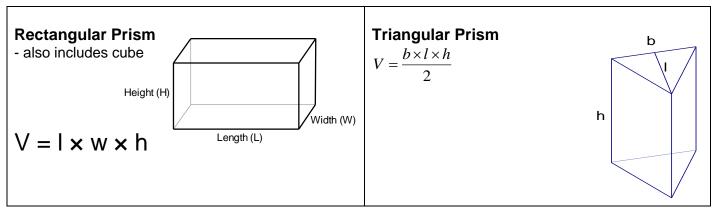
### Volume of Prisms & Cylinder

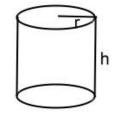
A **prism** is a 3D shape with two identical parallel bases (top and bottom are the same). All other faces are rectangles.

To find the volume of ANY prism, find the area of the base and multiply it by the height.



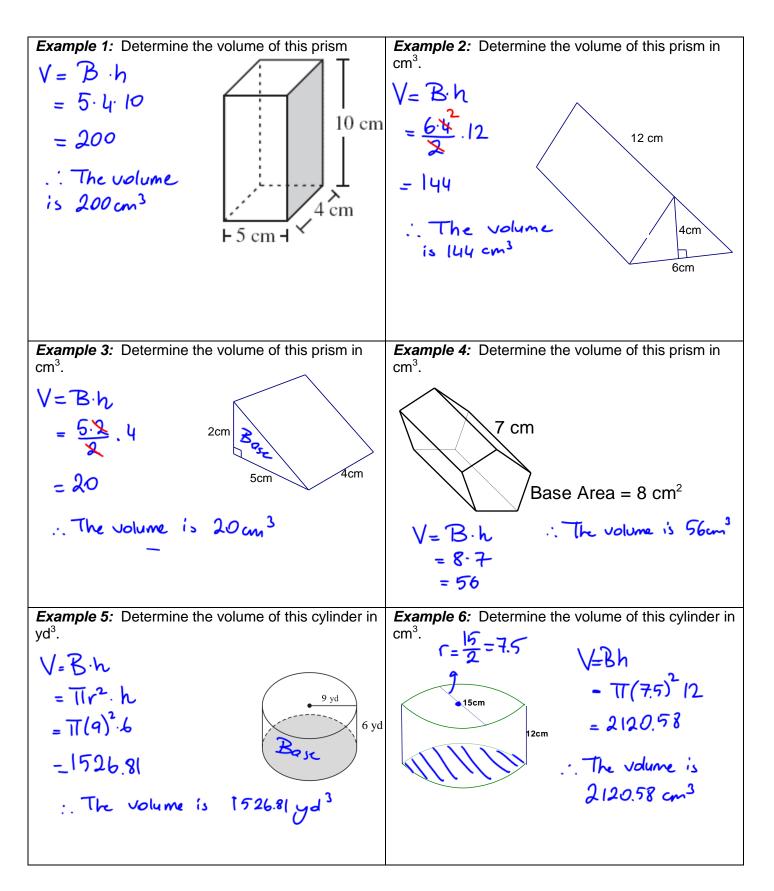


Cylinder - Basically, a circle-based prism

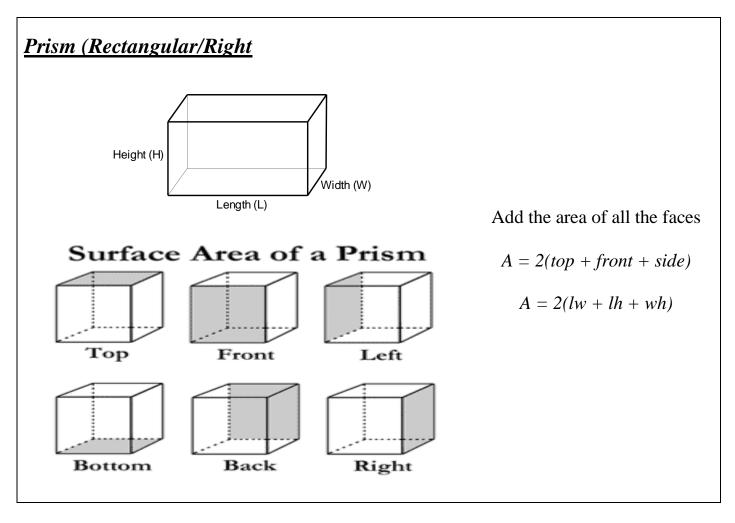


 $V = \pi r^2 h$ 

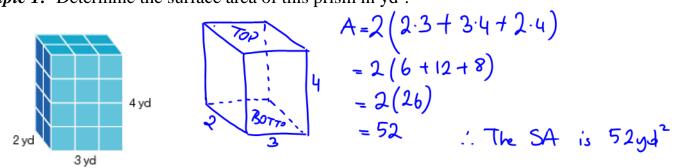
Remember:  $\pi$  = 3.14 (or, there is a  $\pi$  button on your calculator)

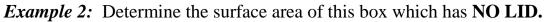


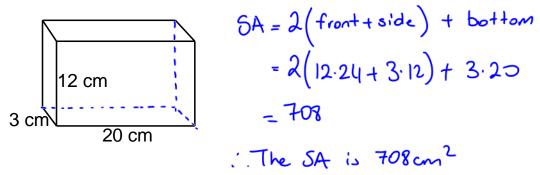
# <u>Surface Area of Prisms</u>

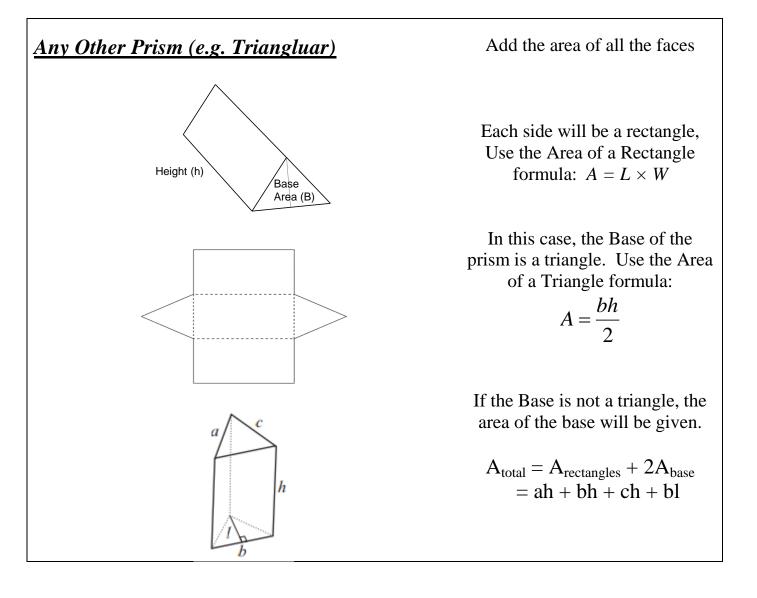


*Example 1*: Determine the surface area of this prism in yd<sup>2</sup>.

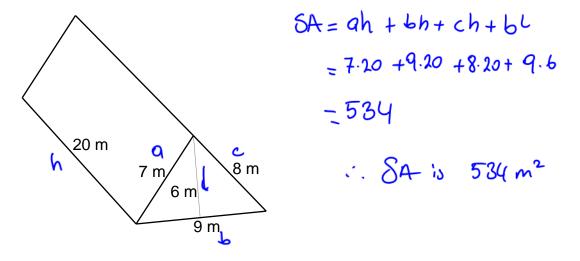




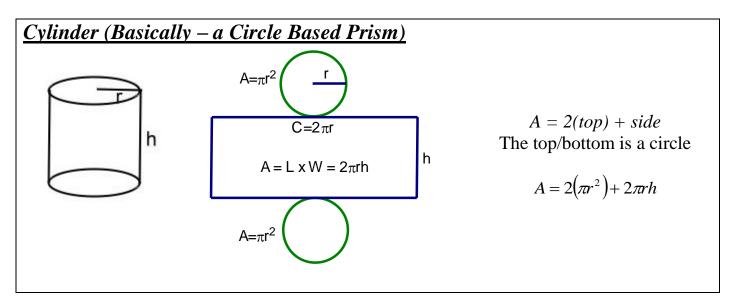




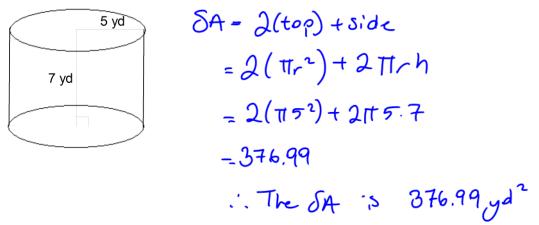
*Example 3:* Determine the surface area of this prism in  $m^2$ .



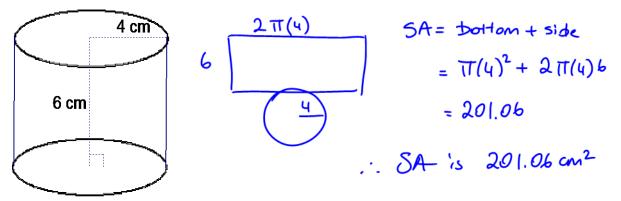
### **Surface Area of Cylinders**



*Example 1:* Determine the surface area of this cylinder in  $yd^2$ .

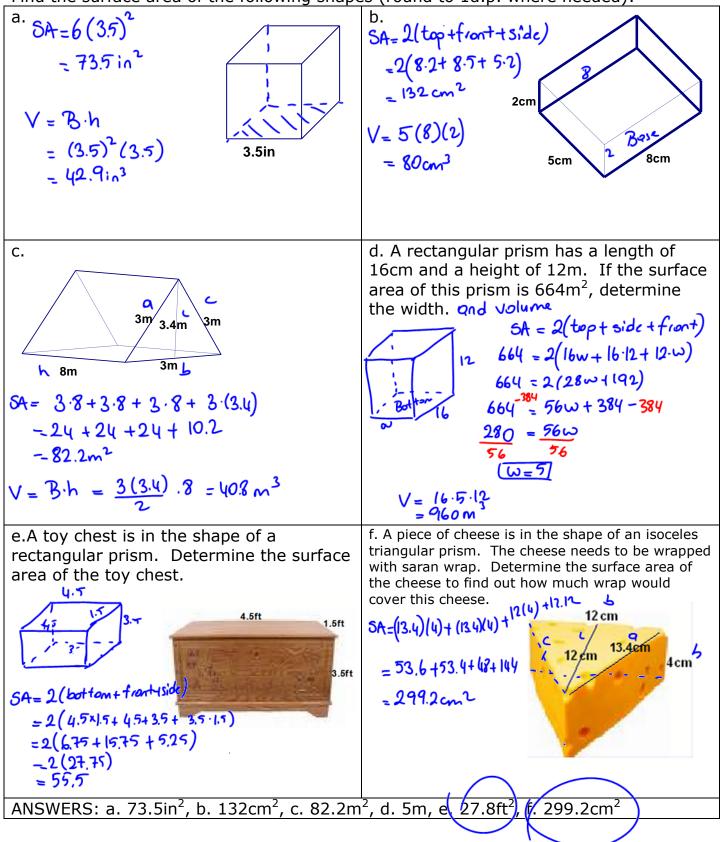


Example 2: Determine the surface area of this drinking glass.



#### Surface Area of Prisms - Practice

Find the surface area of the following shapes (round to 1d.p. where needed):



# <u>Surface Area of Cylinders – Practice</u>

Find the surface area of the following shapes. Round answers to 1d.p.where necessary. Use 3.14 or the pi button for  $\pi$ .

