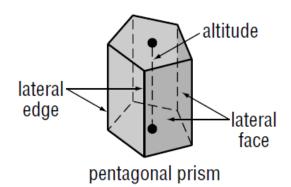
12.2 Surface Areas of Prisms and Cylinders

Lateral Area:

Sum of the areas of the lateral faces.

(area w/o bases)



• Prism:

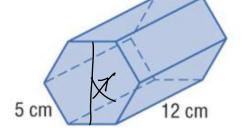
o Lateral Area: L=Phenght of good prisme perimeter

Surface Area:

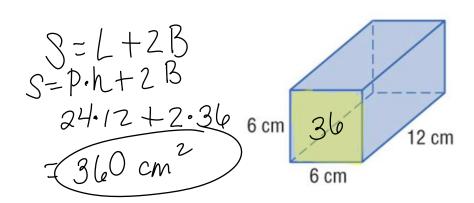
S=L+2B lateral area of base

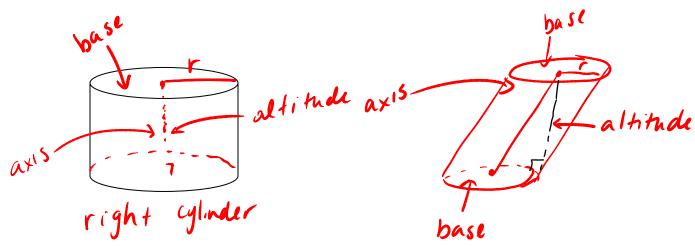
Find the lateral area of the regular hexagonal prism.

L=Ph 30.12= 360 cm²



Find the surface area of the rectangular prism.



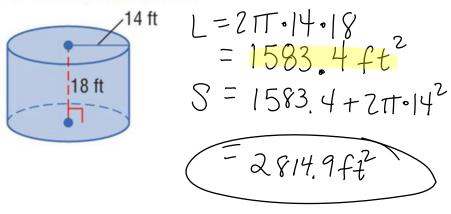


• Cylinder:

o Lateral Area: L= 2 TTh radius height of cylinder

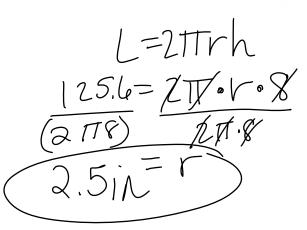
o Surface Area: $S = 2\pi rh + 2\pi r^2$

Find the lateral area and the surface area of the cylinder. Round to the nearest tenth.



MANUFACTURING

A soup can is covered with the label shown. What is the radius of the soup can?





15.7.8=125.6

$$2\pi r = 15.7$$
 $2\pi r = 2\pi r$
 $r = 2.5 in$