## Surface Area-Cylinder

## Concept

Before you start you must know how to find circumference and area of a circle.

radius $r$

$$
\begin{aligned}
& C=2 \pi r \\
& A=\pi r^{2}
\end{aligned}
$$



The surface area of a cylinder is the total area of its surface. A cylinder has two circles and a "Wrapper" going around the out side. see below diagram


Surface Area $=2 \pi r^{2}+2 \pi r h$
$\boldsymbol{S A}=2 \pi(\text { radius })^{2}+($ circumference $)($ height $)$.

## Assignment

1. The diameter of the base of a cylinder is 12 cm and the height is $\mathbf{8 c m}$. Find the surface area of the solid cylinder.
2. The cost of painting a cylindrical container is $\mathbf{\$ 0 . 0 4}$ per $\mathbf{c m 2}$. Find the cost of painting

3 . Find the surface area of each cylinder given below.
a)

b)

c)

