



## Problem Solver



**a)**  
**What is the surface area of this cylinder?**  
*( $r = 10ft, h = 5ft$ )*  
*(Use  $\pi = 3.14$ )*

$$s = 2\pi r^2 + 2\pi rh$$
$$s = 628 + 314$$
$$s = 942$$

**b)**  
**What is the volume of this figure?**  
*( $r = 2in, h = 10in$ )*  
*(Use  $\pi = 3.14$ )*

$$v = \pi r^2 h$$
$$v = 3.14 \times 4 \times 10$$
$$s = 125.6$$

**c)**  
**What is the surface area of a box with dimensions  $4cm \times 5cm \times 6cm$ ?**

$$s = 2(4 \times 5)$$
$$+ 2(4 \times 6)$$
$$+ 2(5 \times 6)$$
$$s = 40 + 48 + 60$$
$$s = 148$$