Ex 12-1, 2
p 374-6

$m_{air} = \rho_{air} V = (1.204\,g\,m^{-3})[(4m)(5m)(3m)]$

$\underline{m_{air} = 72\,kg}$

$W_{air} = m_{air} g = (72\,kg)(9.8\,m\,s^{-2}) =$

$\underline{W_{air} = 700\,N}$

Pressure, $P = \frac{F}{A}$ $\quad 1\,atm = 1.013 \times 10^5\,N$

$F = PA = (1.013 \times 10^5\,N\,m^{-2})(4m)(5m)$

$\underline{F = 2.0 \times 10^6\,N}$