



Feb 23-9:30 AM

$$P = \frac{F}{A} = \left(\frac{N}{M^2} \right) \rightarrow Pa$$

↑
Pascal

$$\frac{\cancel{LBS}}{\cancel{(N \times 10)}} \left(\frac{4.45 \cancel{N}}{\cancel{LBS}} \right) \left(\frac{\cancel{10}}{2.54 \cancel{cm}} \right) \left(\frac{\cancel{10}}{2.54 \cancel{cm}} \right) \left(\frac{100 \cancel{cm}}{M} \right) \left(\frac{100 \cancel{cm}}{M} \right)$$

$$1 \text{ psi} = 6897.51 \frac{N}{M^2} (Pa)$$

~ 14.7 psi → ATMOSPHERIC PRESSURE

$$\text{SPIUGS} = 1400 \text{ Psi}$$

$$\text{SUU} = 22 \text{ Psi}$$

$$P = \frac{F}{A} \Rightarrow \left(\frac{N}{m^2} \right)$$

1 PASCAL \rightarrow 1 Pa

$$\left(\frac{1 \text{ LBS}}{in^2} \right) \rightarrow \left[\frac{1 \text{ LBS}}{(in)(in)} \right] \left(\frac{4.45 \text{ N}}{\text{LBS}} \right) \left(\frac{10}{2.54 \text{ cm}} \right) \left(\frac{10}{2.54 \text{ cm}} \right) \left(\frac{100 \text{ cm}}{m} \right) \left(\frac{100 \text{ cm}}{m} \right)$$

$$6897.5 \frac{N}{m^2} \approx 6900 \text{ Pa} = 6.9 \text{ kPa}$$