1. Pressure is defined as force per unit area or

$$
\begin{aligned}
& P=F / A \\
& P=(800 \mathrm{~N}) /\left(2.0 \mathrm{~m}^{2}\right) \\
& P=400 \mathrm{~N} / \mathrm{m}^{2}=400 \mathrm{~Pa}
\end{aligned}
$$

