4. Ohm's Law gives the relationship between potential difference, current, and resistance as

$$
\Delta V=I R
$$

If we multiply both sides of the equation by I we can solve for $R$.

$$
\begin{aligned}
& \mathrm{R}=\Delta \mathrm{V} / \mathrm{I} \\
& \mathrm{P}=(9.0 \mathrm{~V}) /(2.0 \mathrm{~A})=4.5 \Omega
\end{aligned}
$$

