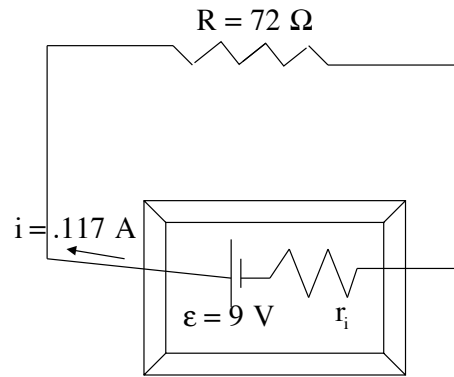


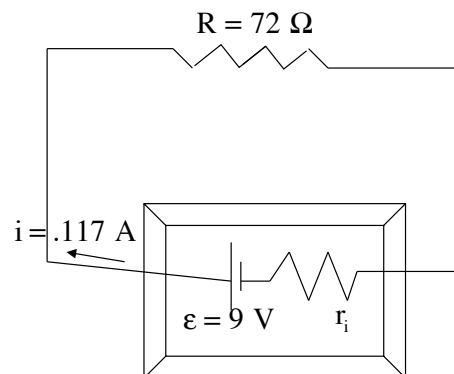
18.1) What's the internal resistance?



1.

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$$\begin{aligned}\epsilon &= i R_{\text{total}} \\ &= i (R + r_i) \\ \Rightarrow r_i &= \frac{\epsilon - iR}{i} \\ \Rightarrow &= \frac{9 - (.117 \text{ A})(72 \Omega)}{.117 \text{ A}} \\ \Rightarrow &= 4.92 \Omega\end{aligned}$$



2.