

SOC 5.13.09

I've just measured one  $\frac{[\text{kg}][\text{m/s}]}{[\text{s}]}$ .

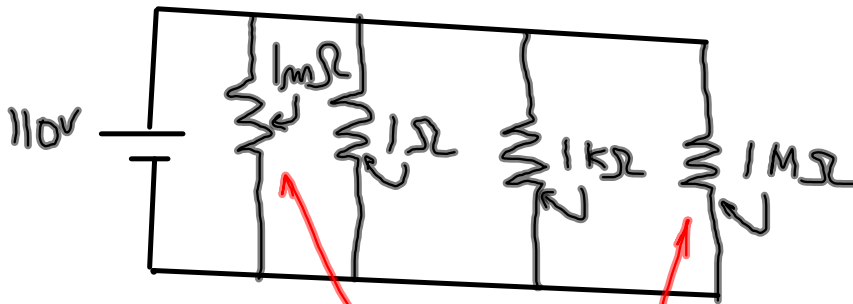
What have I measured??

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$$\frac{[\text{kg}][\text{m/s}]}{[\text{s}]} = [\text{kg}] \overset{m}{\downarrow} \overset{a}{\downarrow} \text{m/s}^2$$

$\therefore$  I've just measured a "Force" of one Newton!

→ Estimate the  $R_E$  of this arrangement.



$$V = IR$$

$$I = \frac{V}{R}$$

→ Prove the idea that electricity takes the path of least resistance.

$$I = \frac{V}{R} = \frac{110}{10^6} = 110 \times 10^{-6} = .000110 \text{ A}$$

110,000

$$\frac{110}{10^{-3}} = \frac{V}{R}$$

$$110 \times 10^3 \text{ A}$$