5/16/16 Ohm's Law Review

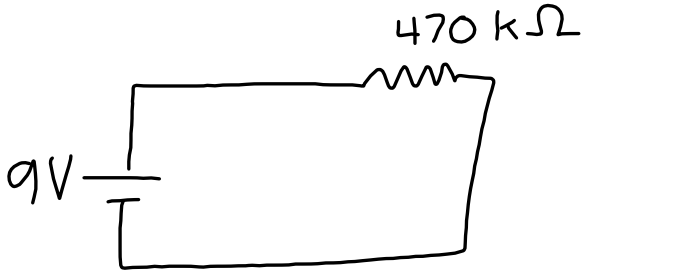
$$V = IR$$

V = Voltage (Volts) (V)

I = Current (Amps) (A)

R = Resistance (Ohms) (Ω)

A 9V BATTERY IS HOOKED TO THIS CIRCUIT. WHAT CURRENT RUNS THROUGH THE CIRCUIT?



SOLUTION:

(1) $V = 9V \quad R = 470\ k\Omega$

$$470\ k\Omega \left(\frac{1000\ \Omega}{1\ k\Omega}\right) = 470{,}000\ \Omega$$

(2) I

(3) $V = IR$

(4) $9 = I(470{,}000)$

(5) $$\frac{9}{470{,}000} = \frac{I(470000)}{470000}$$

$$I = .00001915\ A$$

TODAY

1. FINISH YOUR DRAWING(S) FROM FRIDAY. THEY ARE DUE TODAY. (MUST BE APPROVED BEFORE TURNING IN)
2. PICK A NEW PARTNER → SOMEONE YOU HAVE NOT WORKED WITH. → TELL MS. DALY.
3. GO TO SHOP & START.