Preflight 11.6

The good news is you are going on a trip to France. The bad news is that in France the outlets have 240 volts. You remember from P102 that you need a transformer, so you wrap 100 turns around the primary. How many turns should you wrap around the secondary if you need 120 volts out to run your hair dryer?

1) 50   **2) 100**   **3) 200**

$$\frac{V_s}{V_p} = \frac{N_s}{N_p}$$

iron

N_P
(primary)

N_S
(secondary)

ε ~   V$_p$ V$_s$ R