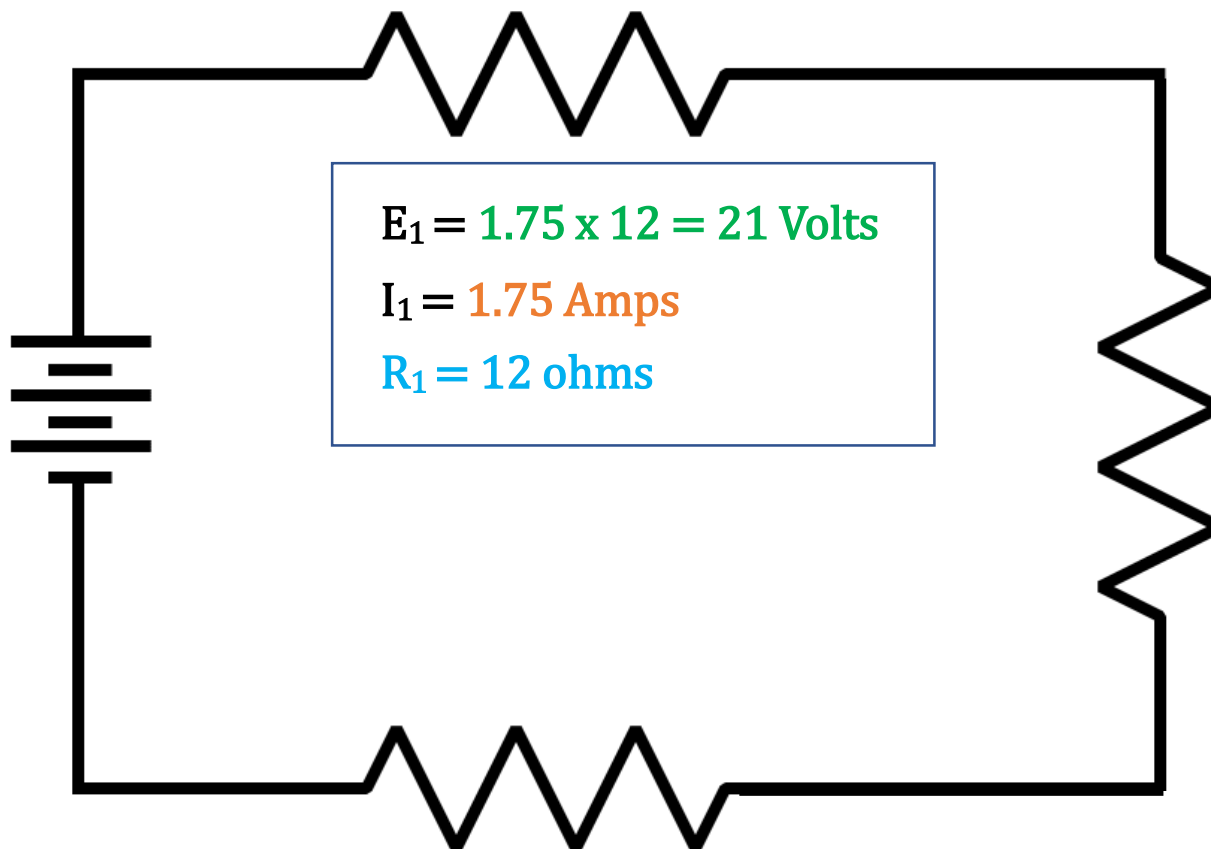


Math

Rule

$$E_T = 1.75 \times 24 = 42 \text{ Volts}$$
$$I_T = 1.75 \text{ Amps}$$
$$R_T = 12 + 4 + 8 = 24 \text{ ohms}$$



$$E_1 = 21 \text{ Volts}$$
$$E_3 = 14 \text{ Volts}$$
$$I_2 = 1.75 \text{ Amps}$$
$$R_T = 24 \text{ ohms}$$

$$E_3 = 1.75 \times 8 = 14 \text{ Volts}$$
$$I_3 = 1.75 \text{ Amps}$$
$$R_3 = 8 \text{ ohms}$$

$$E_2 = 7 \text{ Volts}$$
$$E_T = 42 \text{ Volts}$$
$$I_3 = 1.75 \text{ Amps}$$
$$I_T = 1.75 \text{ Amps}$$