

### **Quiz 20.1E**

A 12-Volt battery is connected to a circuit as shown below.  $R_1 = 1.3$  Ohms,  $R_2 = 2.2$  Ohms,  $R_3 = 3.6$  Ohms,  $R_4 = 4.1$  Ohms.

- a) What is the equivalent resistance of the circuit?
- b) What is the current passing through resistor  $R_4$ ?
- c) If  $R_2$  is removed from the circuit, does your answer to (b) increase, decrease or remain the same? Justify your answer.

