

Quiz 20.1B

A 12.0-Volt battery is connected to a circuit as shown below. $R_1 = 1.52\ \Omega$, $R_2 = 2.35\ \Omega$, $R_3 = 3.41\ \Omega$, $R_4 = 4.45\ \Omega$.

- a) What is the equivalent resistance of the circuit?
- b) What is the current passing through resistor R_1 ?
- c) If R_4 is removed from the circuit, does your answer to (b) increase, decrease or remain the same? Justify your answer.

