

**34** An electric kettle is rated at 2.0 kW, which describes the power supplied to the heating coil in the kettle.

The coil has a resistance of 5.0 k $\Omega$ .

What is the current in the coil?

**A** 0.40 A

**B** 0.63 A

**C** 1.6 A

**D** 2.5 A