

33 A metal wire of length 0.50 m has a resistance of $12\ \Omega$.

What is the resistance of a wire of length 2.0 m and made of the same material, but with half the diameter?

A $12\ \Omega$

B $48\ \Omega$

C $96\ \Omega$

D $192\ \Omega$

34 A student found two unmarked resistors. To determine the resistance of the resistors, the circuit