

# Resistance Problem

1. What length of copper wire, with diameter 1 mm, is required to produce  $0.1 \, \Omega$  of resistance?

Material	Resistivity $\rho$ ( $\Omega \cdot \text{m}$ )
<i>Conductors</i>	
Silver	$1.59 \times 10^{-8}$
Copper	$1.72 \times 10^{-8}$
Gold	$2.44 \times 10^{-8}$
Aluminum	$2.65 \times 10^{-8}$
Tungsten	$5.6 \times 10^{-8}$

# Equivalent Resistance Problem

2. Find the equivalent resistance for the circuit below.

