

33 The table shows the properties of two different wires, P and Q.

	length	resistance	resistivity of material
wire P	l	R	ρ
wire Q	$2l$	$\frac{1}{4}R$	$\frac{1}{3}\rho$

Wire P has a cross-section of diameter d .

What is the diameter of the cross-section of wire Q?

A $0.41d$

B $1.6d$

C $2.7d$

D $7.1d$

34 A cell is connected to a network of