

**35** A copper wire is cylindrical and has resistance  $R$ .

What will be the resistance of a copper wire of twice the length and twice the radius?

A  $\frac{R}{4}$

B  $\frac{R}{2}$

C  $R$

D  $2R$

**36** The diagram shows the electric meter for a garden pump connected to a 24 V power supply by an