

- 32** A cylindrical wire 4.0 m long has a resistance of $31\ \Omega$ and is made of metal of resistivity $1.0 \times 10^{-6}\ \Omega\text{m}$.

What is the radius of cross-section of the wire?

- A** $1.0 \times 10^{-8}\text{ m}$
- B** $2.0 \times 10^{-8}\text{ m}$
- C** $6.4 \times 10^{-8}\text{ m}$
- D** $2.0 \times 10^{-4}\text{ m}$

Space for working