

- 34** Two wires have the same length and the same resistance. Wire X is made of a metal of resistivity $1.7 \times 10^{-8} \Omega \text{m}$ and wire Y is made of a metal of resistivity $5.6 \times 10^{-8} \Omega \text{m}$.

The diameter of wire X is 0.315 mm.

What is the diameter of wire Y?

- A** 0.17 mm **B** 0.33 mm **C** 0.57 mm **D** 1.0 mm

- 35** A cell has a constant electromotive force