Potential difference and resistance

1. Potential difference (p.d.) is measured in volts (V) with a voltmeter placed *in parallel*.
2. Resistance opposes the current. It is measured in ohms.
3. p.d. = current × resistance, or V = I R.
4. For a fixed p.d., a bigger resistance means a smaller current.

Exam tip. Rearrange before you substitute. I = V ÷ R and R = V ÷ I.