POWER

Use the following formula to calculate power:

Power = Current x Voltage

or

P = I x V

This equation can be rearranged to work out the other values, e.g.

$$I = \frac{P}{V} \quad \text{and} \quad V = \frac{P}{I}$$

This can be remembered with the triangle shown below:

Using Ohm's Law we can get a few different equations which can be used if you can't use the original equation. All of these equations can also be rearranged.

As **V = I x R** ➤ **P = I x I x R = I² x R**

and **I = V/R** ➤ **P = V x V/R = V²/R**

Conclusion
P = I x V

P = I² x R

$$P = \frac{V^2}{R}$$

Remember:
Power is measured in Watts (W), Current is measured in Amperes (A), Voltage is measured in Volts (V) and Resistance is measured in Ohms (Ω)