30	An electrical conductor has a resistance of $5.6k\Omega$. A potential difference (p.d.) of $9.0V$ is applied across its ends.							
	How many electrons pass a point in the conductor in one minute?							
	Α	6.0×10^{20}	В	1.0×10^{19}	С	6.0×10^{17}	D	1.0×10^{16}
31	I A fixed resistor of resistance 12Ω is connected to a battery. There is a current of $0.20\mathrm{A}$ in the resistor. The current is now doubled.							
	What is the new power dissipated in the resistor?							
	A	0.48W	В	0.96W	С	1.92 W	D	4.8W

32 Which **measurements** are taken in order to calculate the resistivity of the metal of a piece of wire?

A p.d., current, area, length

B p.d., current, diameter, length

c resistance, area, length

D resistance, length, radius

33 A 12 V battery is charged for 20 minutes by connecting it to a source of electromotive force (e.m.f.). The battery is supplied with 7.2×10^4 J of energy in this time.

How much charge flows through the battery?

A 5.0 C **B** 60 C **C** 100 C **D** 6000 C