

Solutions

Each answer shows the steps, then the **result**.

2.1

- $I = \frac{\Delta Q}{\Delta t} = \frac{15}{3.0} = 5.0 \text{ A}$

2.2

- opposite to the electron flow

2.3

- a potential difference across it

3.1 B

3.2 B

3.3

(a)

- $\Delta Q = I \Delta t = 3.0 \times 20 = 60 \text{ C}$

(b)

- conservation of charge