

## Answer on Question 66100, Physics, Electric Circuits

### Question:

A current of  $15 \text{ A}$  flows through a circuit for  $200 \text{ s}$ . What charge does it have?

### Solution:

By the definition of the electric current we have:

$$I = \frac{\Delta Q}{\Delta t}.$$

Then, from this formula we can find the charge that passes through the circuit:

$$\Delta Q = I \cdot \Delta t = 15 \text{ A} \cdot 200 \text{ s} = 3000 \text{ C}.$$

### Answer:

$$\Delta Q = 3000 \text{ C}.$$

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