

## **Answer on Question 66100, Physics, Electric Circuits**

### **Question:**

A current of 15 A flows through a circuit for 200 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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