

32 Electrons move in a vacuum from one metal plate to another metal plate. As a result of this, there is an electric current of $48\ \mu\text{A}$ between the two plates.

How many electrons are emitted by the first plate in a time of 5.0 minutes?

- A** 1.4×10^4 **B** 1.5×10^{15} **C** 1.8×10^{16} **D** 9.0×10^{16}