

## Question #81620, Chemistry / General Chemistry

if for argument's sake the charge to mass ratio of an electron ( $e/m$ ) was found to be 5000,000 C/Kg (C is the unit of charge) and the charge as later determined to be 400 C. what would be the weight of the electron?

**Answer:**

**Formula:** charge to mass ratio of an electron – 5000,000 C/Kg

$$\text{Proportion } \frac{5000,000 \text{ C}}{1 \text{ Kg}} = \frac{400 \text{ C}}{X \text{ Kg}}$$

$$X = \frac{400 \text{ C} \times 1 \text{ Kg}}{5000.000 \text{ C}}$$

$$X = 8 \times 10^{-5} \text{ Kg.}$$

Answer provided by [AssignmentExpert.com](http://AssignmentExpert.com)