

Practice putting your work in the empty space and your correct answer (with correct scientific notation, correct sig figs and correct units) in the box provided.

1. Thompson obtained a value of -1.79×10^{11} C/kg for the charge to mass (e/m) ratio for an electron. (C = Coulomb, a unit of charge) Millikan determined that the charge of an electron is $e^- = -1.602 \times 10^{-19}$ C. Calculate the mass of an electron.

2. Who used an oil drop experiment to determine the charge of an electron?

3. Which experiment provided evidence that atoms are very dense, very massive, positively charged nucleus?

4. Who discovered a particle that has the same mass of a proton but has no charge?

5. Most of the atom is:

6. Fill in the following chart:

Element	Symbol	Protons	Electrons
Carbon			
Phosphorous			
Potassium			
Calcium			
Krypton			