

Name: _____
Class Period: _____

Honors Physics: Electrostatics Calculating Charge Homework

Conceptual Questions

1. Why is it that the electrons are the particles that move from one object to another?
2. What does it mean that charge is quantized? Why must charge be quantized?

Mathematical Questions

3. Calculate the net charge on a substance consisting of a combination of 7.00×10^{13} protons and 3.00×10^{13} electrons.
4. A metal sphere has a charge of $+7.00 \mu\text{C}$. What is the net charge after 9.00×10^{13} electrons have been placed on it?
5. Find the ΣF_x and ΣF_y for the forces shown to the right. Then find the magnitude and direction of the resultant force. *Watch your signs and trig.

