

26.6: General Questions

1. Assume 10,000 electrons were transferred from your hair to the balloon.
 - a. What is the charge in Coulombs on the balloon?
 - b. What is the charge in Coulombs on your hair?
2. What is the amount of electric force between the balloon and your hair if they are positioned 1 centimeter apart? Add a + and a – to each square representing a piece of tissue in a chain, as the tissue pieces hang from a negatively charged balloon; show the relative positions of the + and – charges on each piece of tissue in the chain. Does each piece of tissue have a charge or is each piece neutral?

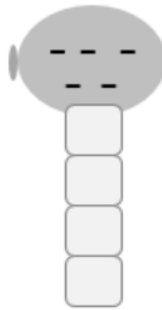


Figure 26.6.1

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