



Figure 1.1: (a) Charges q_1 and q_2 have the same sign; electric force is repulsive. (b) Charges q_1 and q_2 have opposite signs; electric force is attractive.

for historical reasons but also because in later applications the constant ϵ_0 is more convenient. ϵ_0 is called the **permittivity constant**³.

When several points charges are present, the total force on a particular charge q_0 is the *vector sum* of the individual forces gotten from Coulomb's law. (Thus, electric forces have a **superposition** property.) For a continuous distribution of charge we need to divide up the charge distribution into infinitesimal pieces and add up the individual forces with integrals to get the net force.

1.2 Worked Examples

1.2.1 Electric Charge

1. **What is the total charge of 75.0 kg of electrons?** [HWs 23-19]

The mass of *one* electron is 9.11×10^{-31} kg, so that a mass $M = 75.0$ kg contains

$$N = \frac{M}{m_e} = \frac{(75.0 \text{ kg})}{(9.11 \times 10^{-31} \text{ kg})} = 8.23 \times 10^{31} \quad \text{electrons}$$

The charge of *one* electron is $-e = -1.60 \times 10^{-19}$ C, so that the total charge of N electrons is:

$$Q = N(-e) = (8.23 \times 10^{31})(-1.60 \times 10^{-19} \text{ C}) = -1.32 \times 10^{13} \text{ C}$$

2. (a) How many electrons would have to be removed from a penny to leave it with a charge of $+1.0 \times 10^{-7}$ C? (b) To what fraction of the electrons in the penny does this correspond? [A penny has a mass of 3.11 g; assume it is made entirely of copper.] [HWs 23-23]

³In these notes, k will be used mainly in the first chapter; thereafter, we will make increasing use of ϵ_0 !

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