

Assessment

Chapter Test B**Teacher Notes and Answers**
Electric Forces and Fields**CHAPTER TEST B (ADVANCED)**

1. b
2. c
3. a
4. c
5. d
6. c
7. d
8. a
9. d
10. a
11. Loosely held electrons are transferred from the carpet to the socks when the socks are rubbed against the carpet. The body and socks have an excess of electrons and are negatively charged. Touching the doorknob allows the electrons to escape. The shock felt is the sudden movement of charges as the body and socks return to a neutral state.
12. Millikan discovered that charge is quantized. This means that when any object is charged, the net charge is always a multiple of a fundamental unit of charge. The fundamental unit of charge, which is the charge on the electron, is -1.60×10^{-19} C. The charge on a proton is 1.60×10^{-19} C.
13. The paper becomes charged by polarization. In this process, electrons on each molecule are repelled, and the molecule acquires a positive side near the charged object. As a result, the molecules become attracted to the charged object.
14. The negatively charged rod repels electrons from the part of the sphere nearest the rod. As a result, this part becomes deficient in electrons, thus acquiring a positive charge.
15. because the positive charge is twice the magnitude of the negative charge

16. 1.9×10^{-16} C

Given

$q_1 = q_2$

$F_{\text{electric}} = 2.37 \times 10^{-3}$ N

$r = 3.7 \times 10^{-10}$ m

$k_C = 8.99 \times 10^9$ N • m²/C²

Solution

$$F_{\text{electric}} = k_C \frac{q_1 q_2}{r^2} = \frac{k_C q^2}{r^2}$$

$$q = \sqrt{\frac{F_{\text{electric}} r^2}{k_C}} =$$

$$\sqrt{\frac{(2.37 \times 10^{-3} \text{ N})(3.7 \times 10^{-10} \text{ m})^2}{8.99 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2}}$$

$$q = \sqrt{\frac{(2.37 \times 10^{-3} \text{ N})(1.4 \times 10^{-19} \text{ m}^2)}{8.99 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2}}$$

$$q = 1.9 \times 10^{-16} \text{ C}$$

17. 79e

Given

$e = 1.60 \times 10^{-19}$ C

$q_a = 2e = 3.20 \times 10^{-19}$ C

$F_{\text{electric}} = 91.0$ N

$r = 2.00 \times 10^{-14}$ m

$k_C = 8.99 \times 10^9$ N • m²/C²

Solution

$$F_{\text{electric}} = k_C \frac{q_a q_{\text{Gold}}}{r^2}$$

Rearrange to solve for q_{Gold} .

$$q_{\text{Gold}} = \frac{(F_{\text{electric}}) r^2}{(k_C) q_a} =$$

$$\frac{(91.0 \text{ N})(2.00 \times 10^{-14} \text{ m})^2}{(8.99 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2)(3.20 \times 10^{-19} \text{ C})} =$$

 $1.27 \times 10^{-17} \text{ C}$

$$\frac{q_{\text{Gold}}}{q_e} = \frac{1.27 \times 10^{-17} \text{ C}}{1.60 \times 10^{-19} \text{ C}} = 79.4$$

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Rachel S Tattersall



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