

Concept Review

Ch 17-1

Section: Electric Charge and Force

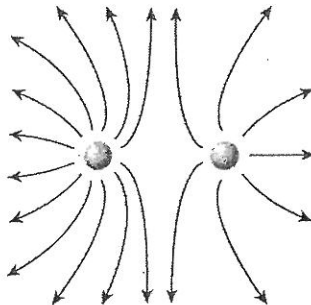
1. **Describe** the interaction between two unlike charges.

2. **Determine** the amount by which the electric force between two charges is increased when the distance between the charges is halved.

3. **Categorize** the following as conductors or insulators:

- _____ a. salt water
- _____ b. a silver belt buckle
- _____ c. a piece of wood
- _____ d. a penny
- _____ e. a candy bar

4. **Determine** whether each charge in the diagram below is positive or negative. Indicate which charge is greater.



5. **Suppose** the electric field in a region points upward.

a. **Determine** the direction of the electric force on a proton placed in the field.

b. **Determine** the direction of the electric force on an electron placed in the field.

c. **Compare** the accelerations of the proton and electron placed in this electric field.