Name _____ Class _____ Date _____ 75

Skills Worksheet

Concept Review

Section: Electric Charge and Force

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

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

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

_____ **a.** salt water

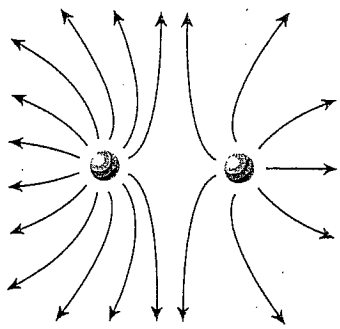
_____ **b.** a silver belt buckle

_____ **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.

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

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

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