

## Review Questions For Electricity

### True or False

1. The electrostatic series is a list used to determine the kind of electric charge produced on each substance when they are rubbed together. **True**
2. You do not have to wear safety clothing in flour mills and grain elevators. **False**
3. Conductors are substances in which the electrons can not move freely from one atom to another. **False**
4. The law of electric charges states : like charges repel one another and unlike charges attract one another. **True**
5. The term “static” means to move from one spot to another constantly. **False**
6. When a person combs their hair, their hair will become positive and the comb will become negative. **True**
7. An example of an insulator is copper. **False**
8. Charging by induction means charging without touching. **True**
9. A neutral dust particle will attract to a charged tv because like charges repel and unlike charges attract. **True**
10. The repulsion test is the only way to tell the charge of an object. **False**

## Answers to Chapter 9 Review

1. The three ways to discharge objects are:  
friction, contact, induction

an example of friction is a balloon being rubbed on your hair, clothes rubbing together in the dryer etc

an example of contact is rubbing your feet on the carpet and then touching a door knob, combing your cat and then petting your cat.

an example of induction is dust being attracted to your tv screen

2. the air is drier in winter, therefore the electrons are not conducted away from an object. Moisture in the air acts as a conductor taking the electrons away from objects before the static charges can build up.

3. a. cotton (-) wool (+)  
b. hair (+) plastic comb (-)  
c. silk (+) cotton (-)

4. Two ways to discharge objects are by grounding or discharging at a point.

Grounding is when there is a wire connected from the object to the earth any charge the object receives gets transferred to the earth.

Discharging at a point is when something like a static wick is used on an airplane to remove the charges from the pointy tip into the air.