

Name: _____ Date: _____ Period: _____

Identifying Variables

For the following experiments, define the (IV) independent variable, (DV) dependent variable, (SV) standardizing variables and (CG) control group.

- 1) Different rose bushes are grown in a greenhouse for two months. The number of flowers on each bush is counted at the end of the experiment.

IV _____

DV _____

SV _____

- 2) You water three sunflower plants with salt water. Each plant receives a different concentration of salt solutions. A fourth plant receives regular water. After a two-week period, the height is measured.

IV _____

DV _____

CG _____

- 3) Three redwood trees are kept at different humidity levels inside a greenhouse for 12 weeks. One tree is left outside in normal conditions. Height of the tree is measured once a week.

IV _____

DV _____

SV _____

CG _____

- 4) Pea plant clones are given different amounts of water for a three-week period. First pea plant receives 400 milliliters a day. The second pea plant receives 200 milliliters a day. The third pea plant receives 100 milliliters a day. The fourth pea plant does not receive any extra water; the plant only receives natural ways of receiving water. The height of pea plants is recorded daily.

IV _____

DV _____

SV _____

CG _____

5) One tank of gold fish is fed the normal amount of food once a day, a second tank is fed twice a day, and a third tank four times a day during a six week study. The fish's body fat is recorded daily.

IV _____

DV _____

SV _____

CG _____

6) You decide to clean the bathroom. You notice that the shower is covered in a strange green slime. You decide to try to get rid of this slime by adding lemonade juice. You spray half of the shower with lemonade juice and spray the other half of the shower with water. After 3 days of "treatment", there is no change in the appearance of the green slime on either side of the shower.

IV _____

DV _____

CG _____

7) You decide to clean your bedroom. You notice that your floor is covered with clothes. You decide to try to get rid of the clothes by throwing the clothes into the air. You throw clothes from a 1/3 of the room into the closet and a second 1/3 of the room straight up in the air. The last 1/3 of the room you leave the clothes on the floor. After 30 minutes of "cleaning", the floor of the room is now visible.

IV _____

DV _____

CG _____