Hawk Mastery 1

Name:_____

Date:___

Period:___

1. In complete sentences, describe the difference between independent and dependent variables.

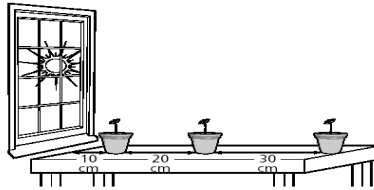2. Define the following terms
   a. <u>Control group</u>

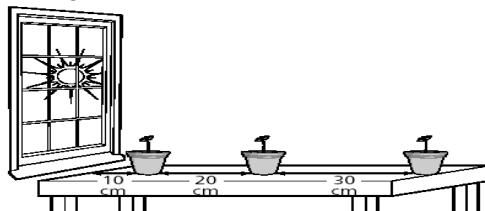   b. <u>Variable</u>

   c. <u>Constant</u>

3. The picture below illustrates an experiment designed to test plant growth using potted green bean sprouts placed in front of a window.

Which of these is the independent variable in this experimental design?
a.   different species of plants
b.   different types of light sources
c.   the height of each plants ceramic pot
d.   the distance of the plants from the light source

4. The picture below illustrates an experiment designed by a student to test plant growth using potted green bean sprouts placed in front of a window. The independent variable is the distance from the light source. A dependent variable is how tall each plant will grow.

What would be a good control experiment to go with this?
a.   Do a completely different experiment with the corn plants
b.   Repeat the experiment over, but use 3 different colors for the pots.
c.   Measure the height of the window
d.   Repeat the experiment over, but place the plants in dark room.