



**Independent and Dependent Variables- Identify the independent and dependent variables in each sentence**

1. The higher the temperature of water, the faster the egg will cook  
The \_\_\_\_\_ causes the \_\_\_\_\_ to change.  
IV: \_\_\_\_\_ DV: \_\_\_\_\_
2. An investigation was done to see if keeping the lights on for different amount of time each day affected the number of eggs the chicken lay.  
The \_\_\_\_\_ causes the \_\_\_\_\_ to change.  
IV: \_\_\_\_\_ DV: \_\_\_\_\_
3. The time it takes to run a mile depends of the amount of exercise a person gets.  
The \_\_\_\_\_ causes the \_\_\_\_\_ to change.  
IV: \_\_\_\_\_ DV: \_\_\_\_\_
4. Grass will grow taller if it is watered and fertilized more.  
The \_\_\_\_\_ causes the \_\_\_\_\_ to change.  
IV: \_\_\_\_\_ DV: \_\_\_\_\_
5. An investigation was performed to see if corn seeds would sprout at different times depending on the temperature of the air in which they were placed.  
The \_\_\_\_\_ causes the \_\_\_\_\_ to change.  
IV: \_\_\_\_\_ DV: \_\_\_\_\_
6. The amount of algae growth in lakes seems to be directly related to the number of sacks of fertilizer sold.  
The \_\_\_\_\_ causes the \_\_\_\_\_ to change.  
IV: \_\_\_\_\_ DV: \_\_\_\_\_
7. The amount of pollution produced by cars was measured for cars using gasoline containing different amounts of lead.  
The \_\_\_\_\_ causes the \_\_\_\_\_ to change.  
IV: \_\_\_\_\_ DV: \_\_\_\_\_
8. Students in science class carried out an investigation in which a flashlight was pointed at a screen. They wanted to find out if the distance from the light to the screen had any affect on the size of the illuminated area.  
The \_\_\_\_\_ causes the \_\_\_\_\_ to change.  
IV: \_\_\_\_\_ DV: \_\_\_\_\_
9. The score on the final test depended on the number of study questions the student completed.  
The \_\_\_\_\_ causes the \_\_\_\_\_ to change.  
IV: \_\_\_\_\_ DV: \_\_\_\_\_
10. A study was done with white rats to see of the number of offspring born with birth defects was related to the number of minutes of exposure to x-rays by the mother rats.  
The \_\_\_\_\_ causes the \_\_\_\_\_ to change.  
IV: \_\_\_\_\_ DV: \_\_\_\_\_
11. Five groups of rates are fed identical diets except for the amount of vitamin A that they receive. Each group gets a different amount. After 3 weeks on the diet, the rats are weighed to see if the amount of vitamin A received has affected their weight.  
The \_\_\_\_\_ causes the \_\_\_\_\_ to change.  
IV: \_\_\_\_\_ DV: \_\_\_\_\_
12. The state agriculture department has been counting the number of foxes in Brown county. Will the number of foxes have any affect on the rabbit population?  
The \_\_\_\_\_ causes the \_\_\_\_\_ to change.  
IV: \_\_\_\_\_ DV: \_\_\_\_\_

