**Name:\_\_\_\_\_\_KEY\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_**

**Identify the Independent (IV) and Dependent (DV) Variable of Each Scenario.**

1. Justin wants to determine the effect of fertilizer on the growth of grass.

IV:\_\_\_\_\_\_\_fertilizer\_\_\_\_\_\_\_\_\_\_ DV:\_\_\_\_\_\_\_\_\_growth of the grass\_\_\_\_\_\_\_\_\_\_

2. Randell wants to determine if salinity has an effect on his goldfish.

IV:\_\_\_\_\_\_\_salinity\_\_\_\_\_\_\_\_\_\_ DV:\_\_\_\_\_goldfish health\_\_\_\_\_\_\_\_\_\_\_

3. James wants to know the effect of studying an extra 10 minutes each day on his Biology grade.

IV:\_\_\_\_\_\_\_\_time studying\_\_\_\_\_\_\_ DV:\_\_\_\_\_\_\_\_\_grade\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Joelle wants to determine the effect of pesticides on the size of the apples in the orchard.

IV:\_\_\_\_\_\_\_\_pesticides\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DV:\_\_\_\_\_\_Apple Size\_\_\_\_\_\_\_\_\_\_

5. Billy wants to know if increasing his exercise will decrease the time it takes him to run a kilometer.

IV:\_\_\_\_\_\_exercise\_\_\_\_\_\_ DV:\_\_\_\_\_\_\_time to run a mile\_\_\_\_\_\_\_\_\_\_

6. Angel wants to know if the type of detergent has an effect on the cleanliness of her clothes.

IV:\_\_\_\_\_\_\_\_Detergent\_\_\_\_\_\_\_\_\_\_\_\_ DV:\_\_\_\_\_\_cleanliness\_\_\_\_\_\_\_\_

7. Madison wants to determine of the weight of the dog will have an effect on the number of puppies in the litter.

IV:\_\_\_\_\_\_\_\_weight\_\_\_\_\_\_\_\_\_\_ DV:\_\_\_\_\_\_\_number of puppies\_\_\_\_\_\_\_\_\_\_\_\_

8. Zack wants to determine of the amount of time spent on social media has an effect on anxiety levels.

IV:\_\_\_\_\_\_time of social media\_\_\_\_\_\_\_\_ DV:\_\_\_anxiety\_\_\_\_\_\_

9. Conner wants to determine if the diet of a rat has an effect on the rats overall health (weight, bone density).

IV:\_\_\_\_\_\_\_\_diet\_\_\_\_\_\_\_\_ DV:\_\_\_\_\_\_\_\_health\_\_\_\_\_\_\_\_\_\_\_\_

10. Allison wants to determine if the deer population in the area is influenced by the coyote population.

IV:\_\_\_\_\_\_\_\_coyote population\_\_\_\_\_\_\_\_ DV:\_\_\_\_\_\_\_deer population\_\_\_\_\_\_\_\_