

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 if 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 if 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 \_\_\_\_\_