Coke® and Mentos® Demo

***Initial Observation:*** After school one day you are drinking a Coke, when a friend offers you a Mentos. Without much thought, you take the Mentos and immediately take a swig from your Coke. All of a sudden, there is a small explosion in your mouth and you are forced to spit your Mentos and Coke out onto the floor.

***Problem:*** You wonder if both diet and regular Coke both have the same effect with Mentos.

***Hypothesis:*** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
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***How can we tell which one will react more?*** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
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***Define the following and give examples of each for this demo:***

Qualitative: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
ex.

Quantitative:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
ex.

***What is a variable?***

***Tell what each of the following is in this demo:***

Independent variable:

Dependent variable:

Constants:

Control Group:

***Conclusion:***