Who can more accurately taste the difference between Pepsi and Coke: Boys or Girls?

Name___________________________________________ Date _____ Period _____

Data Calculations:

Correct Guesses in _____ / Number of _____ = Percent Correct

Girls VS Boys:

Number of Girls:_____ Number of Correct Guesses in Girls:_____ Percent Correct :_____%
Number of Boys:_____ Number of Correct Guesses in Boys:_____ Percent Correct :_____%

Frequency of Drinking Soda:

Number of Daily:_____ Number of Correct Guesses in Daily:_____ Percent Correct :_____%
Number of Weekly:_____ Number of Correct Guesses in Weekly:_____ Percent Correct :_____%
Number of Monthly:_____ Number of Correct Guesses in Monthly:_____ Percent Correct :_____%
Number of Rarely:_____ Number of Correct Guesses in Rarely:_____ Percent Correct :_____%

Age:

Number of 12:_____ Number of Correct Guesses in 12:_____ Percent Correct :_____%
Number of 13:_____ Number of Correct Guesses in 13:_____ Percent Correct :_____%
Number of 14:_____ Number of Correct Guesses in 14:_____ Percent Correct :_____%

Ability to Roll Tongue:

Number of Yes:_____ Number of Correct Guesses in Yes:_____ Percent Correct :_____%
Number of No:_____ Number of Correct Guesses in No:_____ Percent Correct :_____%

Graph:

What type of graph should we use? Why?

__________________________________________________________________________________________________________________________________________

What was the independent variable? _____________________________________________________________

Which axis should the I.V. be on? _____________________________________________________________

What was the dependent variable? _____________________________________________________________

Which axis should the D.V. be on? _____________________________________________________________
Who can more accurately taste the difference between Pepsi and Coke: Boys or Girls?

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Graph Checklist:

○ Title at top of graph

○ Clearly labeled X and Y axis

○ Evenly spaced X and Y axis labels

○ Neat and Colored

○ Name, date, and period in top right corner

Answer the following questions in complete sentences. Use SPECIFIC data from the experiment to support your answers. Unsupported answers or incomplete sentences will not receive credit.

1. How did gender affect the ability to identify Pepsi and Coke? Explain your answer with data.

___________________________________________________________________________________________

___________________________________________________________________________________________

2. How did age affect the ability to identify Pepsi and Coke? Explain your answer with data.

___________________________________________________________________________________________

___________________________________________________________________________________________

3. How did the frequency of drinking soda affect the ability to identify Pepsi and Coke? Explain your answer with data.

___________________________________________________________________________________________

___________________________________________________________________________________________

4. How did the ability to roll your tongue affect the ability to identify Pepsi and Coke? Explain your answer with data.

___________________________________________________________________________________________

___________________________________________________________________________________________

___________________________________________________________________________________________

5. Do you think these results are accurate? Why or why not?

___________________________________________________________________________________________

___________________________________________________________________________________________

6. How could we have improved this experiment? Give at least two ideas and how they would help.

___________________________________________________________________________________________

___________________________________________________________________________________________

Complete the back of the Experimental Design Graphic Organizer.

Staple the Experimental Design Graphic Organizer, Graph, and this sheet together (in that order).