“Brand X” Variables

Review your experiment. Reflect on all of the variables in your experiment. Find where they fit in the chart below.

<table>
<thead>
<tr>
<th>Same (controlled)</th>
<th>Different (independent)</th>
<th>Result (dependent)</th>
<th>Other (can’t control)</th>
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Look at the completed chart above. Is your experiment controlled? Why or why not?

________________________________________________________________________
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“Brand X” Variables

Conclusions: Write at least 4 paragraphs (5-6 sentences each)

1) Was this a fair test? Discuss variables that could influence results. Some examples include the following: Were all of your measurements/times/amounts the same? Did you wipe the sponges with the same pressure each time? Make a list of all the variables that can influence the results. Include the variables from your list above and add any you discovered while conducting the experiment.

2) Would you expect the same results if a high school science class in California repeated your experiment? Why?

3) Was your hypothesis correct? If so, then why? If not, formulate “null hypothesis” (no effect) and “alternative hypotheses” about one of the variables identified by the group. For example:

   (1) Null hypothesis - bounty did not soak up more water than the other brands.
   (2) Alternative hypothesis - Viva proved to be more absorbent than the other brands because it soaked up more water.

4) How could you improve this experiment? What could you do to make sure that all elements of the experiment would be controlled (ex. invent technology to use the paper towel with the same pressure each time)?

5) Give a scientific reason for your results. Why did you get the results you got? Why did the Viva soak up more water? Fr

Answer the Following Questions: Use your chart from page 1

1. What is the independent/experimental variable?_________

2. Name a controlled variable?______________________________

3. Are there any more controlled variables? If so, what are they?
   _______________________________________________________
   _______________________________________________________
   _______________________________________________________

4. What is the dependent variable?___________________________