

Shown below is a set of data collected during a hypothetical experiment. For the independent variable, the number shown could represent different amounts, intensities, etc. The values for the dependent variable are those that were measured in response to the amount/intensity/etc. of the independent variable.

independent variable	dependent variable
0.0	4.30
5.0	4.27
10.0	4.28
15.0	4.24
20.0	4.02
25.0	3.55
30.0	2.93
35.0	2.31
40.0	1.26
45.0	0.43
50.0	0.01

Questions: Answer all questions below in the spaces provided.

The more amount of the vinegar 5% is added to the water then the more acidic is water.

2. Do the data support your hypothesis?

yes or no    yes

3. Provide one possible alternative explanation for the data shown other than your answer in 2 that the data either do or do not support your hypothesis? Don't worry - this does not have to be plausible, just possible!

Vinegar makes water more acidic because vinegar contains acetic acid which makes the low pH level.

4. What is a control that you could use to rule out the alternative explanation you provided in 3. Is this a positive or negative control?

In another beaker, there would not be added vinegar 5% to the solution. And we would measure the pH level of the clear solution.

Positive or negative:            positive

"Graph the data in the table using a Marked Scatter chart. To do this, select the entire table (include column headings), then go to the Charts menu and select one of the Marked scatter charts under Scatter. (You may find this under ""Other."" You may use any type of marked scatter chart, as long as it is marked). Your graph should appear in this spreadsheet."

Total for correct on-time submission (1 pt)

Total for Questions (4 pts)

Total for Graph (1 pt)

TOTAL PTS (5 possible): 0.00