Graph Preparation and Interpretation Questions:

1. What did we quantify – what did we measure or count?

(a) *(b)*

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2. Identify the dependent and independent variables by considering these questions:

Does the (a)_____ depend on the (b)_____?
Or does the (b)_____ depend on the (a)_____?

The independent variable is the _____, and the dependent variable _____. Typically, the independent variable is graphed on the ***x***-axis, and the dependent variable is graphed on the ***y***-axis.

3. Label the axes accordingly, adding appropriate units.

4. Choose an appropriate scale for each variable by considering the following:

What is the range of the (a)_____?

From _____ to _____.

After you find the range of this data, count how many graph squares are on the corresponding axis, and choose an appropriate scale for that axis. Scale: _____

What is the range of the (b)_____?

From _____ to _____.

After you find the range of this data, count how many graph squares are on the corresponding axis, and choose an appropriate scale for that axis. Scale: _____

5. Plot your data points.

6. After you graph the data, answer the following questions:

What are the units of the slope? Express as a rate. _____

What is the meaning of the slope? Express in words.

What is the slope of the line? _____

What is the y-intercept? _____

What is the meaning of the y-intercept? Express in words.

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