Graph Preparation and Interpretation Questions:

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

(a) ____________________________  (b) ____________________________

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.