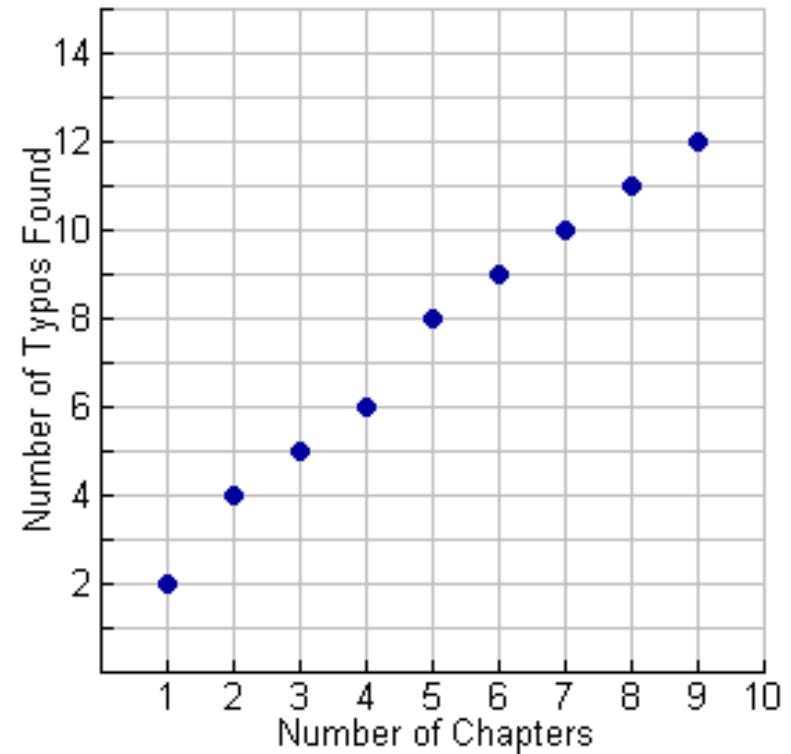


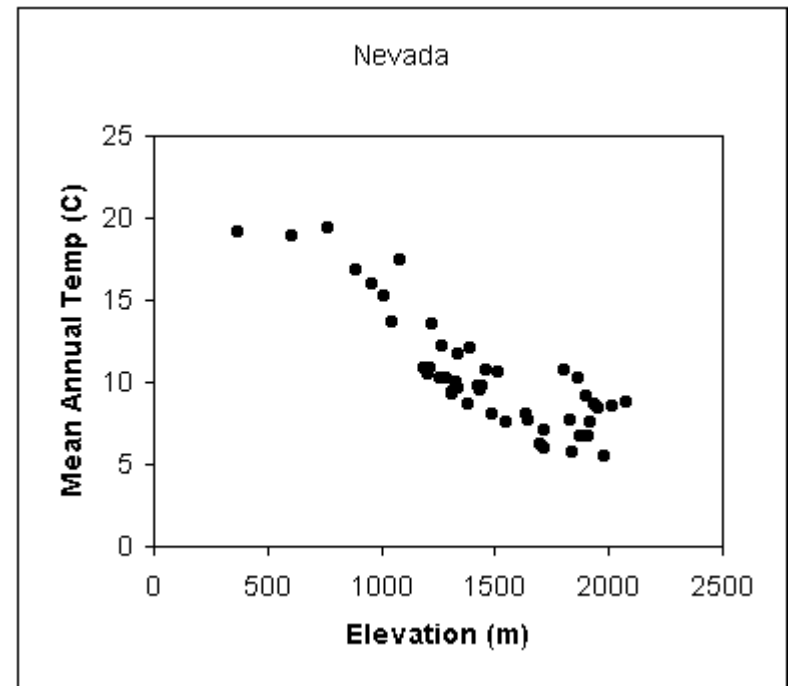
## Line of Best Fit Worksheet

1. To the right is a scatterplot of data comparing the number of chapters in a textbook to the number of typos found within the book. Answer the following questions based on the graph.
- Draw a line of best fit to model the data.
  - Write an equation for your line of best fit.



- What does the slope of the line mean in context to this situation?
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- What is the y-intercept of the graph? \_\_\_\_\_
  - What does the y-intercept mean in the context of this situation?

2. To the right is a scatterplot of data comparing the elevation in meters to the mean annual temperature in degrees Celsius in Nevada. Answer the following questions based on the graph.
- Draw a line of best fit to model the data.
  - Write an equation for your line of best fit.

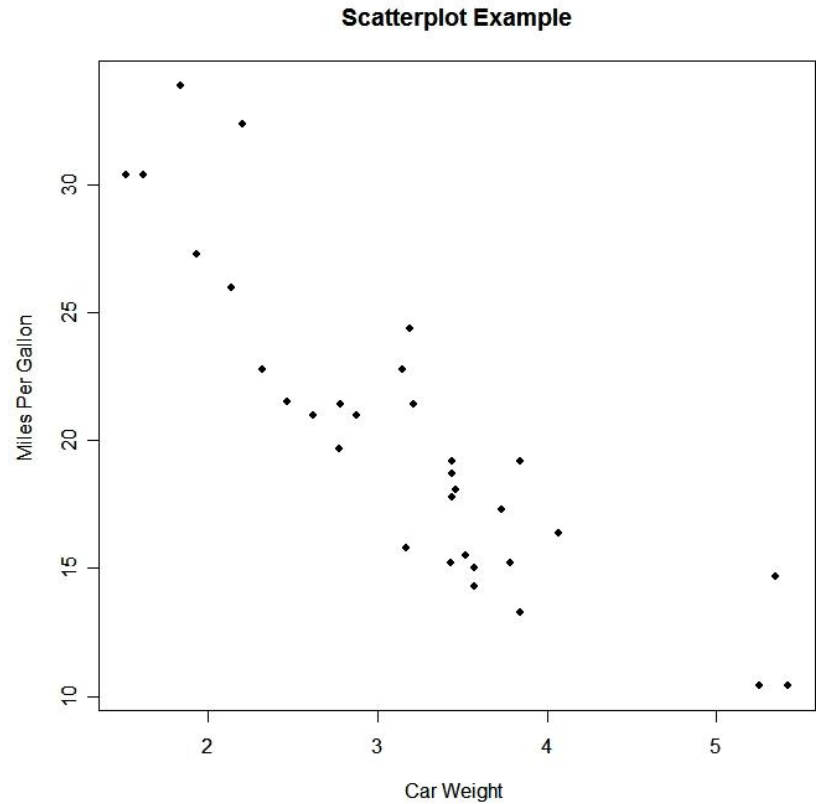


- What does the slope of the line mean in context to this situation?
- What is the y-intercept of the graph? \_\_\_\_\_
- What does the y-intercept mean in the context of this situation?

3. To the right is a scatterplot of data comparing the weight of a car in tons to the miles per gallon that the car receives. Answer the following questions based on the graph.

- a. Draw a line of best fit to model the data.
- b. Write an equation for your line of best fit.

c. What does the slope of the line mean in context to this situation?



- d. What is the y-intercept of the graph? \_\_\_\_\_
- e. What does the y-intercept mean in the context of this situation?

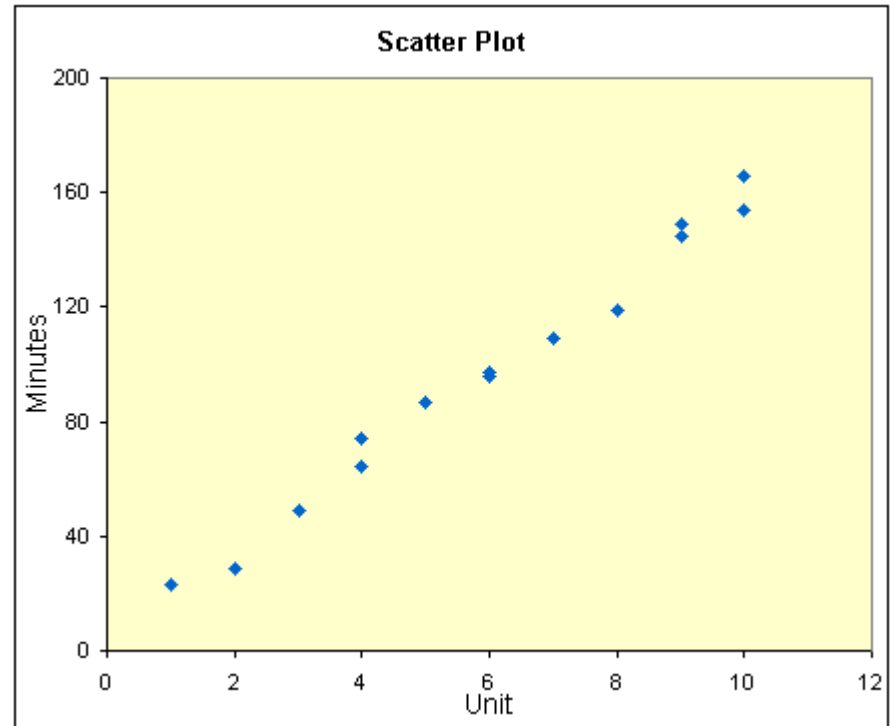
4. To the right is a scatterplot of data comparing the age of a car in years to the value of the car in thousands. Answer the following questions based on the graph.
- Draw a line of best fit to model the data.
  - Write an equation for your line of best fit.



- What does the slope of the line mean in context to this situation?
- What is the y-intercept of the graph? \_\_\_\_\_
- What does the y-intercept mean in the context of this situation?

5. To the right is a scatterplot of data comparing the distance walked by a group of students and the time in minutes it takes them to walk the given distance. Answer the following questions based on the graph.

- a. Draw a line of best fit to model the data.
- b. Write an equation for your line of best fit.



c. What does the slope of the line mean in context to this situation?

d. What is the y-intercept of the graph? \_\_\_\_\_

e. What does the y-intercept mean in the context of this situation?

