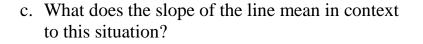
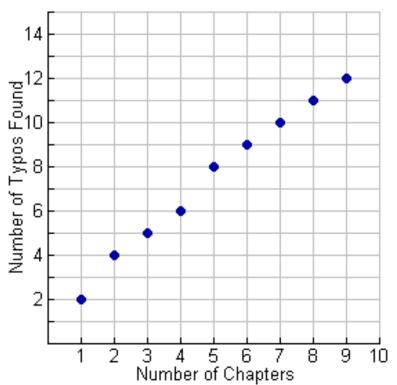
Line of Best Fit Worksheet

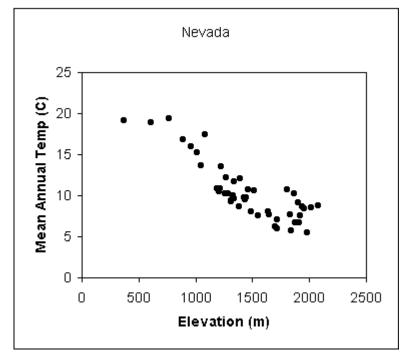
- 1. To the right is a scatterplot of data comparing the number of chapters in a textbook to the number of typos found within the book. Answer the following questions based on the graph.
 - a. Draw a line of best fit to model the data.
 - b. Write an equation for your line of best fit.



- d. What is the y-intercept of the graph? _____
- e. 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.
 - a. Draw a line of best fit to model the data.
 - b. Write an equation for your line of best fit.

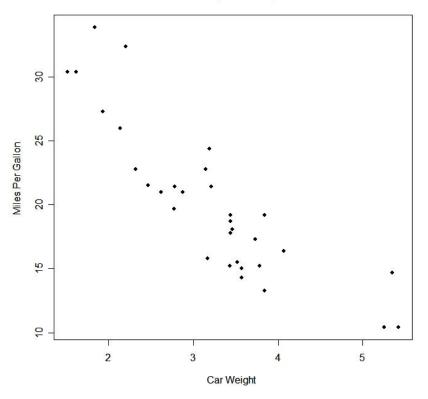


c. What does the slope of the line mean in context to this situation?

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

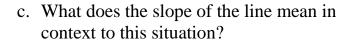
- 3. To the right is a scatterplot of data comparing the weight of a car in tons to the miles per gallon that the car receives. Answer the following questions based on the graph.
 - a. Draw a line of best fit to model the data.
 - b. Write an equation for your line of best fit.

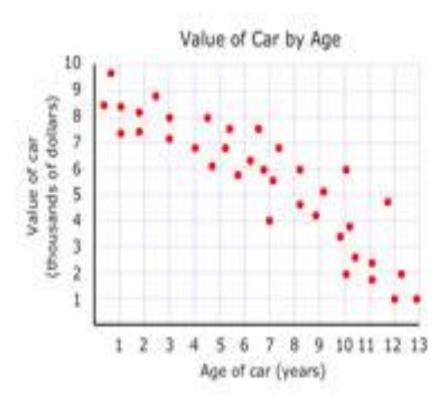
c. What does the slope of the line mean in context to this situation?



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

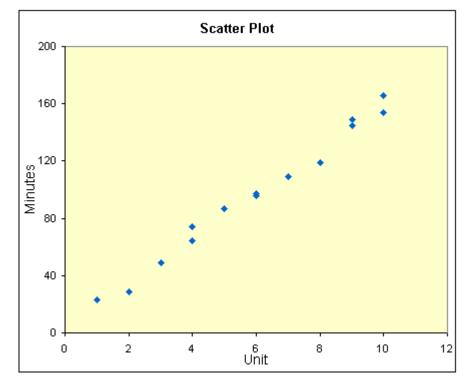




- d. What is the y-intercept of the graph? _
- e. What does the y-intercept mean in the context of this situation?

- 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?

- 6. A data table is given below. Graph the data and answer the following questions.
 - Be sure to label each axis and the appropriate scale.

Destination	Distance (in miles)	Airfare
Atlanta	576	\$164
Boston	370	\$124
Chicago	612	\$143
Dallas	1,216	\$260
Detroit	409	\$161
Denver	1,502	\$216
Miami	946	\$180
New York	189	\$108
St. Louis	737	\$180

LOWEST-PRICED AIRFARES FROM BALTIMORE

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

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

d.) What does the y-intercept mean in context to this situation?

