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

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


## LOWEST-PRICED AIRFARES FROM BALTIMORE

| Destination | Distance <br> (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 | $\$ 180$ |

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?

