Name _____ Date _____

1.3 Notetaking with Vocabulary (continued)

Finding a Line of Fit

Step 1 Create a scatter plot of the data.

Step 2 Sketch the line that most closely appears to follow the trend given by the data points. There should be about as many points above the line as below it.

Step 3 Choose two points on the line and estimate the coordinates of each point. These points do not have to be original data points.

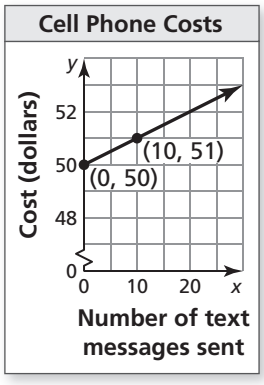
Step 4 Write an equation of the line that passes through the two points from Step 3. This equation is a model for the data.

Notes:

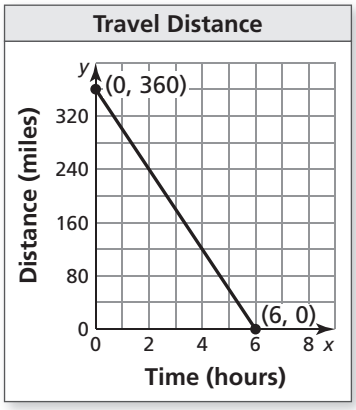
Extra Practice

In Exercises 1–3, use the graph to write an equation of the line and interpret the slope.

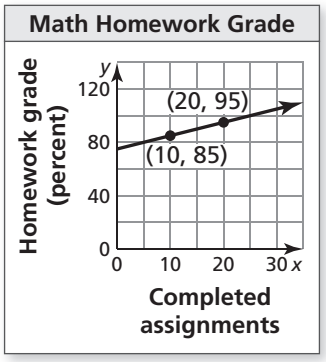
1.



2.



3.



Name_____ Date _____

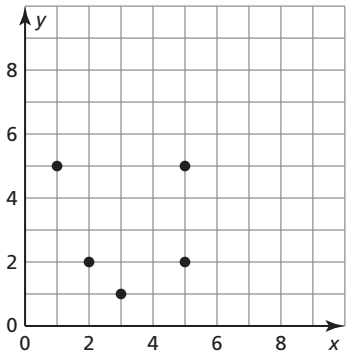
1.3 Notetaking with Vocabulary (continued)

4. The cost of parking in a parking garage in Chicago is represented by the equation $y = 15x + 20$ where y is the total cost (in dollars) and x is the time (in hours). The table shows the total cost to park in a parking garage in Denver. Which city's parking garage charges more per hour and by how much more? After how many hours would parking in both cities cost the same?

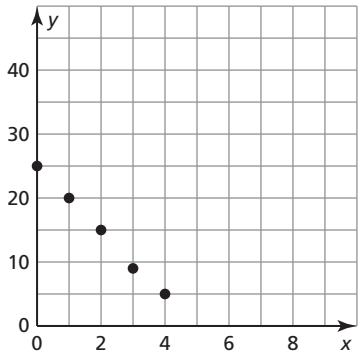
Hours, *x*	2	3	4	5
Cost, *y*	43	51	59	67

In Exercises 5–7, use the *linear regression* feature on a graphing calculator to find an equation of the line of best fit for the data. Find and interpret the correlation coefficient.

5.



6.



7.