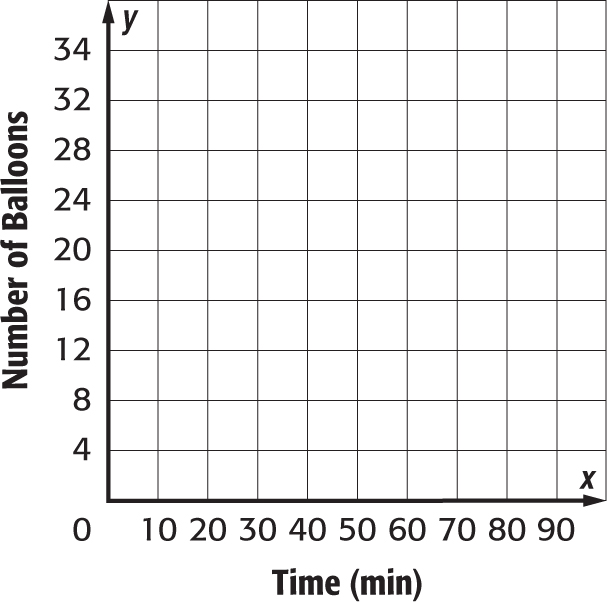
**Lesson 2 Homework Practice**

***Lines of Best Fit***

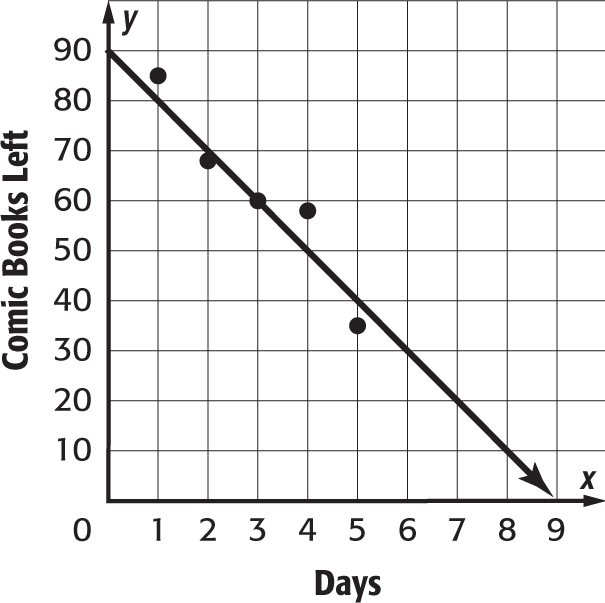
**1. BALLOONS** Salina is having a surprise party for her friend Ernie. The table shows how many balloons she has been able to blow up by the end of each 10-minute segment.



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Time (min)** | 10 | 20 | 30 | 40 | 50 |
| **Balloons** | 3 | 12 | 15 | 16 | 21 |

**a.** Construct a scatter plot of the data. Then draw and assess a line that seems to best represent the data.

**b.** Use the line of best fit to make a conjecture about the number of balloons she will have blown up at the end of 70 minutes.

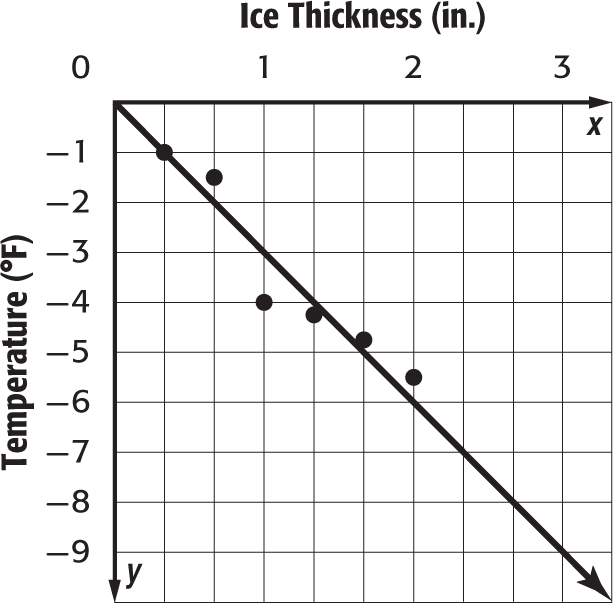


**2. COMIC BOOKS** Sidney is selling his comic book collection on the Internet. The scatter plot shows how many comic books he has left at the end of each day.

**a.** Write an equation in slope-intercept form for the line that is drawn.

**b.** Use the equation to make a conjecture about the number of comic books he will have at the end of the seventh day.

**3. ICE RINK** Maury has an ice rink in his back yard. The scatter plot shows the thickness of the ice relative to the temperature.



**a.** Write an equation in slope-intercept form for the line that is drawn.

**b.** Use the equation to make a conjecture about the inches.