

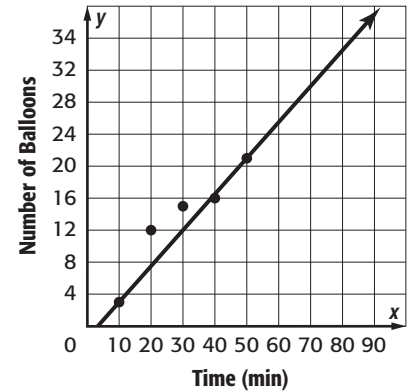
Lesson 2 Homework Practice

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.

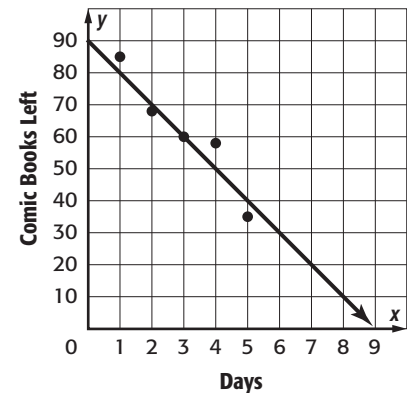
Time (min)	10	20	30	40	50
Balloons	3	12	15	16	21

- 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. **Sample answer: 30 balloons**



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.
Sample answer: $y = -10x + 90$
- b. Use the equation to make a conjecture about the number of comic books he will have at the end of the seventh day. **20 comic books**



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.
Sample answer: $y = -3x$
- b. Use the equation to make a conjecture about the $\frac{1}{3}$ inches.
 -7°F

