

Lesson 2 Homework Practice

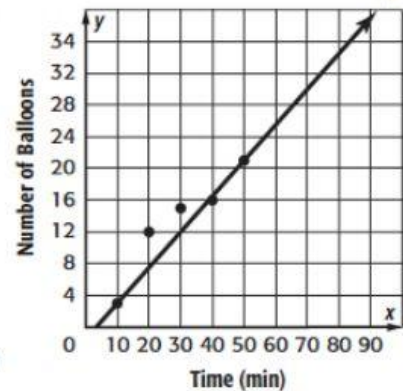
Lines of Best Fit

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.

answer: balloons



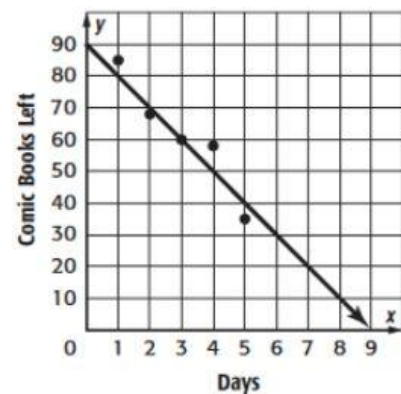
2. **COMIC BOOKS** Sidney is selling his comic book collection on the Internet. The scatter plot shows how many comic books he has left at the end of each day.

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

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.

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.

answer: $y = -1.5x - 1$

- b. Use the equation to make a conjecture about the $\frac{1}{3}$ inches.

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