NAME

Lesson 2 Reteach

Lines of Best Fit

Examples

BOATS Boat sales at Dustin's Marina are given.

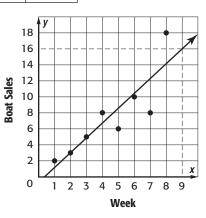
Week	1	2	3	4	5	6	7	8
Boat Sales	2	3	5	8	6	10	8	18

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

Graph each of the data points. Draw a line that fits the data.

2. Use the line of best fit to make a conjecture about boat sales in week 9.

Extend the line so that you can estimate the *y*-value for an *x*-value of 9. The *y*-value for the 9th week is 16 boats. We can predict that Dustin's Marina will sell 16 boats in week 9.



Exercises

1. OUTDOOR CLUB The table shows the number of new members to join the Outdoor Club.

Day	1	2	3	4	5	6
New Members	3	6	4	3	6	4

- **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 new members to join the club on the eighth day.
 Sample answer: 7 new members
- **2. PORTFOLIO** The table shows the value of Heather's portfolio, in thousands of dollars, at the end of each year.

Year	1	2	3	4	5	6
Value	90	70	80	60	80	60

- **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 value of Heather's portfolio at the end of year 8.
 Sample answer: \$55,000

