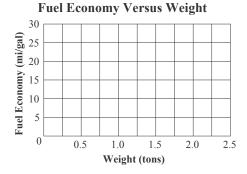
PERIOD

2-5 Practice Scatter Plots and Lines of Regression

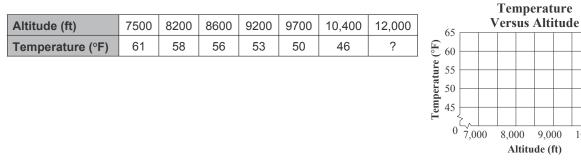
For Exercises 1 and 2, complete parts a-c.

- a. Make a scatter plot and a line of fit, and describe the correlation.
- b. Use two ordered pairs to write a prediction equation.
- c. Use your prediction equation to predict the missing value.
- **1. FUEL ECONOMY** The table gives the weights in tons and estimates the fuel economy in miles per gallon for several cars.

Weight (tons)	1.3	1.4	1.5	1.8	2	2.1	2.4
Miles per Gallon	29	24	23	21	?	17	15



2. ALTITUDE As Anchara drives into the mountains, her car thermometer registers the temperatures (F) shown in the table at the given altitudes (feet).



3. HEALTH Alton has a treadmill that uses the time on the treadmill to estimate the number of Calories he burns during a workout. The table gives workout times and Calories burned for several workouts. Find an equation for and graph a line of regression. Then use the function to predict the number of Calories burned in a 60-minute workout.

Time (min)	18	24	30	40	42	48	52	60
Calories Burned	260	280	320	380	400	440	475	?

10.000