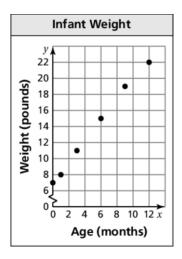
## 9.2 Practice A

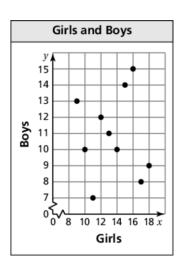
- **1.** The scatter plot shows the weights *y* of an infant from birth through *x* months.
  - **a.** At what age did the infant weigh 11 pounds?
  - **b.** What was the infant's weight at birth?
  - **c.** Draw a line that you think best approximates the points.
  - **d.** Write an equation for your line.
  - **e.** Use the equation to predict the weight of the infant at 18 months.



- **f.** Does the data show a *positive*, a *negative*, or *no* relationship?
- **2.** The table shows the numbers of losses *y* a gamer has *x* weeks after getting a new video game.

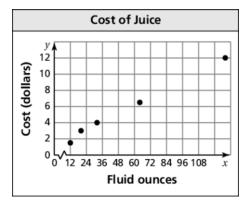
Week, x	1	2	3	4	5	6	7
Losses, y	15	12	10	7	6	3	1

- **a.** Make a scatter plot of the data.
- **b.** Draw a line of fit.
- **c.** Write an equation of the line of fit.
- **d.** Does the data show a *positive*, a *negative*, or *no* relationship?
- **e.** Interpret the relationship.
- **3.** The scatter plot shows the relationship between the numbers of girls and the numbers of boys in 10 different classrooms.
  - **a.** What type of relationship, if any, does the data show?
  - **b.** Is it possible to find the line of fit for the data? Explain.
  - **c.** Is it reasonable to use this scatter plot to predict the number of boys in the classroom based on the number of girls? Explain.



## 9.2 Practice B

- **1.** The scatter plot shows the costs *y* of bottles containing *x* fluid ounces of juice.
  - **a.** How much does a gallon of juice cost?
  - **b.** How many fluid ounces of juice can you purchase for \$3?



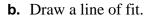
- **c.** Draw a line that you think best approximates the points.
- **d.** Write an equation for your line.
- **e.** Use the equation to predict the cost of a 256-fluid ounce container of juice.
- **f.** Does the data show a *positive*, a *negative*, or *no* relationship?
- **2.** The table shows the mortgage interest rates *y* at a local bank for the years 2000 through 2008.

Year since 2000, <i>x</i>	0	1	2	3	4	5	6	7	8
Rate (%), y	7.6	6.8	6.2	6.0	5.2	5.8	6.1	5.9	5.5

- **a.** Make a scatter plot of the data.
- **b.** Draw a line of fit.
- **c.** Write an equation of the line of fit.

- **d.** Use the equation to predict the mortgage interest rate for the year 2010.
- **e.** Does the data show a *positive*, a *negative*, or *no* relationship?
- **f.** Interpret the relationship.

- **3.** The scatter plot shows the relationship between the age of an individual *x* and the cost of admission *y* to a show.
  - **a.** What type of relationship does the data show?



- **c.** Write an equation of the line of fit.
- **d.** Interpret the relationship.

