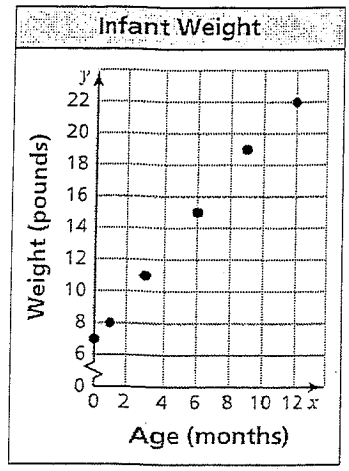
Name _____ Date _____

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.

      Slope:

      y-intercept:

      equation:

   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?

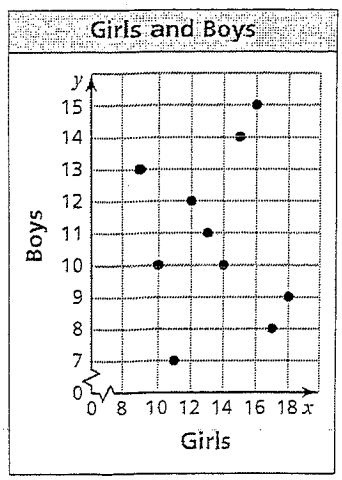
2. The table shows the numbers of losses y a gamer has x weeks after getting a new video game.

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

   a. Does the data show a *positive*, a *negative*, or *no* relationship?

   b. 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?

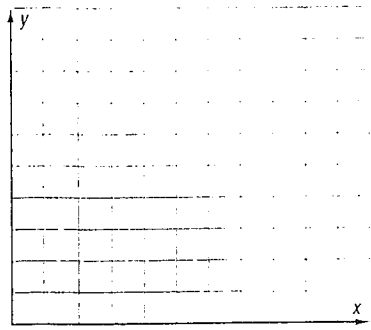
   b. Is it possible to find the line of fit for the data? Explain.

   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.

For Exercises 1–5, use the table below. The table shows the amount of television watched by a group of people.

Age (years)	Hours of TV Watched per Week
5	5
5	15
10	20
15	15
20	20
25	30
30	20
30	25
35	30
40	20

1.



1. Construct a scatter plot of the data.

2. Interpret the scatter plot based on the shape of the distribution. 2. _____

3. Draw and assess a line that seems to best represent the data on the scatter plot created for Exercise 1. 3. _____

4. Write an equation in slope-intercept form for the line of best fit. 4. _____

5. Use the line of best fit found in Exercise 4 to make a conjecture about the number of hours a 55-year-old would spend watching TV. 5. _____