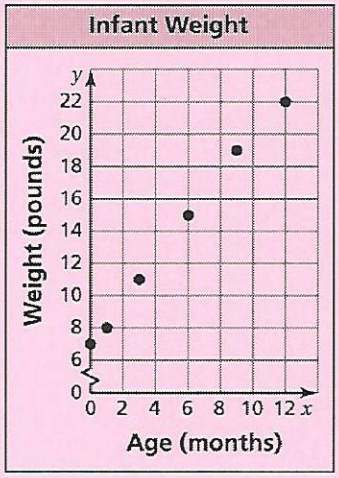
Name _____ Date _____

12.5 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 the straight line that you think best approximates the points.

   d. Write an equation of the line you drew.

   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 number of losses y at a video game during week x.

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.

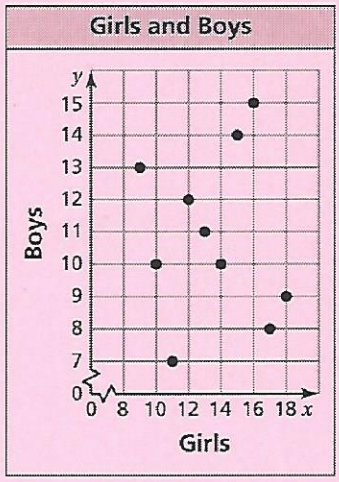
   b. Draw a line of fit.

   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 number of girls and the number 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.