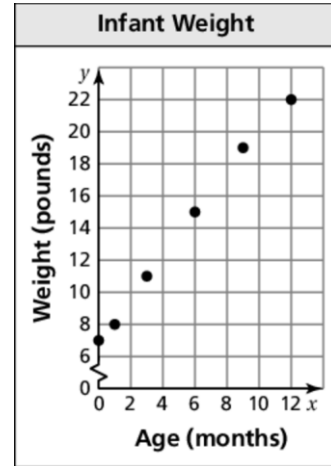


9.2

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.

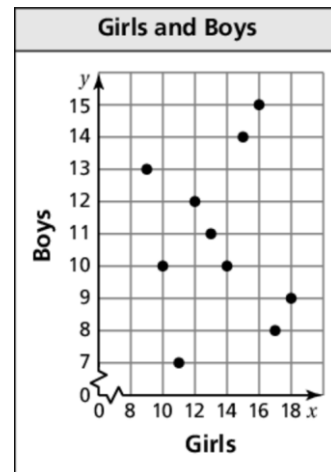


- f. Does the data show a *positive*, a *negative*, or *no* relationship?
2. The table shows the numbers of losses y a gamer has x weeks after getting a new video game.

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.

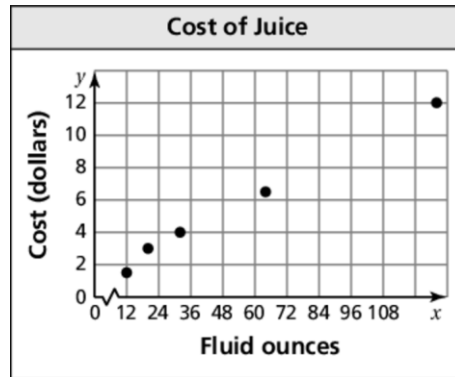


- a. What type of relationship, if any, does the data show?
- b. Is it possible to find the line of fit for the data? Explain.
- c. Is it reasonable to use this scatter plot to predict the number of boys in the classroom based on the number of girls? Explain.

9.2

Practice B

- The scatter plot shows the costs y of bottles containing x fluid ounces of juice.
 - How much does a gallon of juice cost?
 - How many fluid ounces of juice can you purchase for \$3?
 - Draw a line that you think best approximates the points.
 - Write an equation for your line.

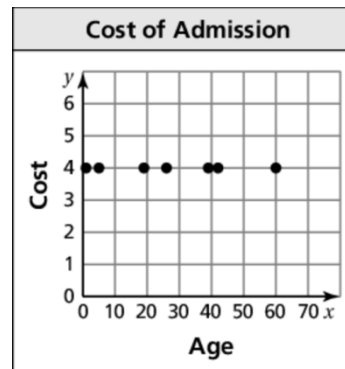


- The table shows the mortgage interest rates y at a local bank for the years 2000 through 2008.

Year since 2000, x	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

- Make a scatter plot of the data.
- Draw a line of fit.
- Write an equation of the line of fit.
- Use the equation to predict the mortgage interest rate for the year 2010.
- Does the data show a *positive*, a *negative*, or *no* relationship?
- Interpret the relationship.

- The scatter plot shows the relationship between the age of an individual x and the cost of admission y to a show.



- What type of relationship does the data show?
- Draw a line of fit.
- Write an equation of the line of fit.
- Interpret the relationship.