

Lines of Fit Practice Worksheet

Name: _____

Date: _____ Hour: _____

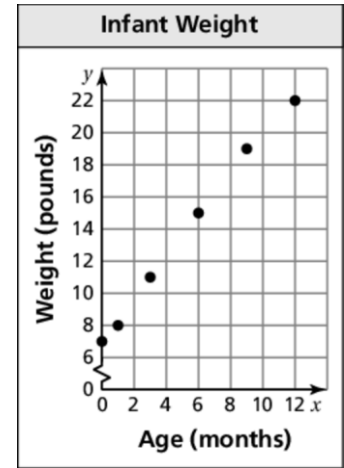
1. The scatter plot shows the weights y of an infant from birth through x months.

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.



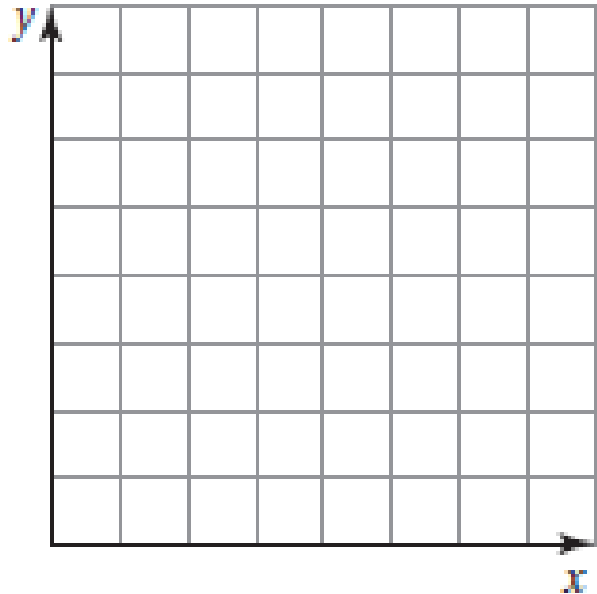
e. Use the equation to predict the weight of the infant at 18 months.

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.

a. Make a scatter plot of the data.

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



b. Draw a line of fit.

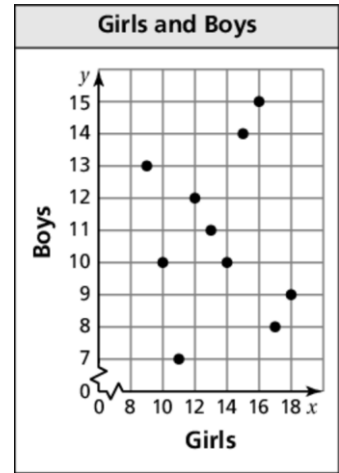
c. Write an equation of the line of fit.

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.

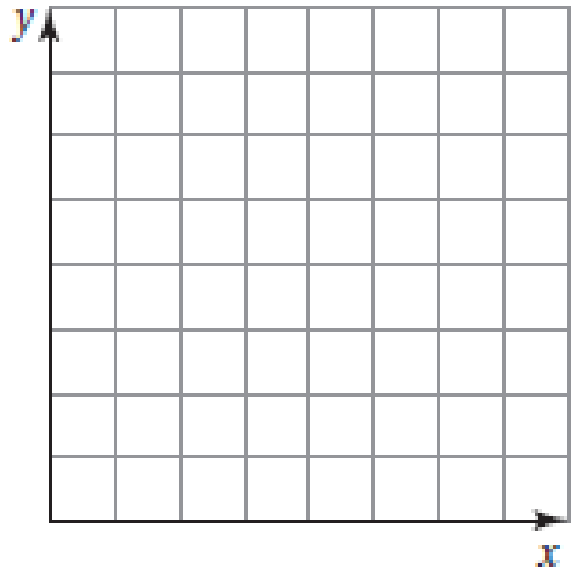
- What type of relationship, if any, does the data show?
- Is it possible to find the line of fit for the data? Explain.
- Is it reasonable to use this scatter plot to predict the number of boys in the classroom based on the number of girls? Explain.



4. 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.



3. 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.

