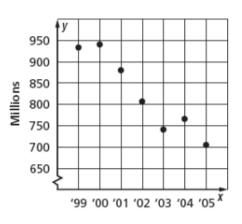
Section 4.3 Lines of Best Fit Name:

- 1. The scatter plot shows the number of CDs (in millions) that were sold from 1999 to 2005.
 - a. Write the equation for a line of best fit.
 - b. If the trend continued, about how many CDs were sold in 2006?

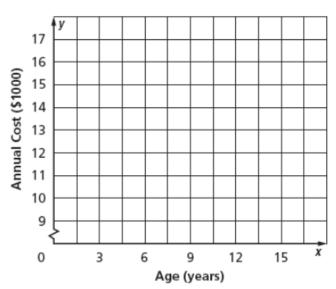


2. The table below shows the predicted annual cost for a middle income family to raise a child from birth until

adulthoo	Ч
auuitiioo	u.

Cost of Raising a Child Born in 2003								
Child's Age	3	6	9	12	15			
Annual Cost (\$)	10,700	11,700	12,600	15,000	16,700			

- a. Write the equation for a line of best fit.
- b. Describe what relationship exists within the data.

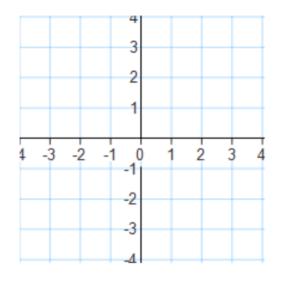


3. Make a scatter plot of the data in the table.

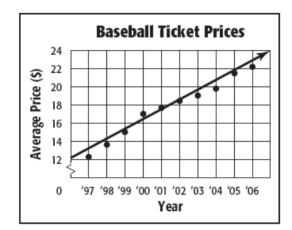
X	-2	-2	-1	0	1	1	1	2	2	3
У	2	3	2	1	0	1	-1	-1	-2	-2

a. What is the equation of the line of best fit?

b. Describe what relationship exists within the data.



Section 4.3 Lines of Best Fit Name:



Source: Team Marketing Report, Chicago

b. Use your equation to tell the price of a ticket in 2009.

4. The scatter plot shows the average price of a major-league

a. What is the equation of the line of best fit?

baseball ticket from 1997 to 2006.

5. The table shows the average and maximum longevity of various animals in captivity.

Longevity (years)								
Avg.	12	25	15	8	35	40	41	20
Max.	47	50	40	20	70	77	61	54

a. What is the equation of the line of best fit?

Animal Longevity (Years)

Average

b. Predict the maximum longevity for an animal with an average longevity of 33 years.