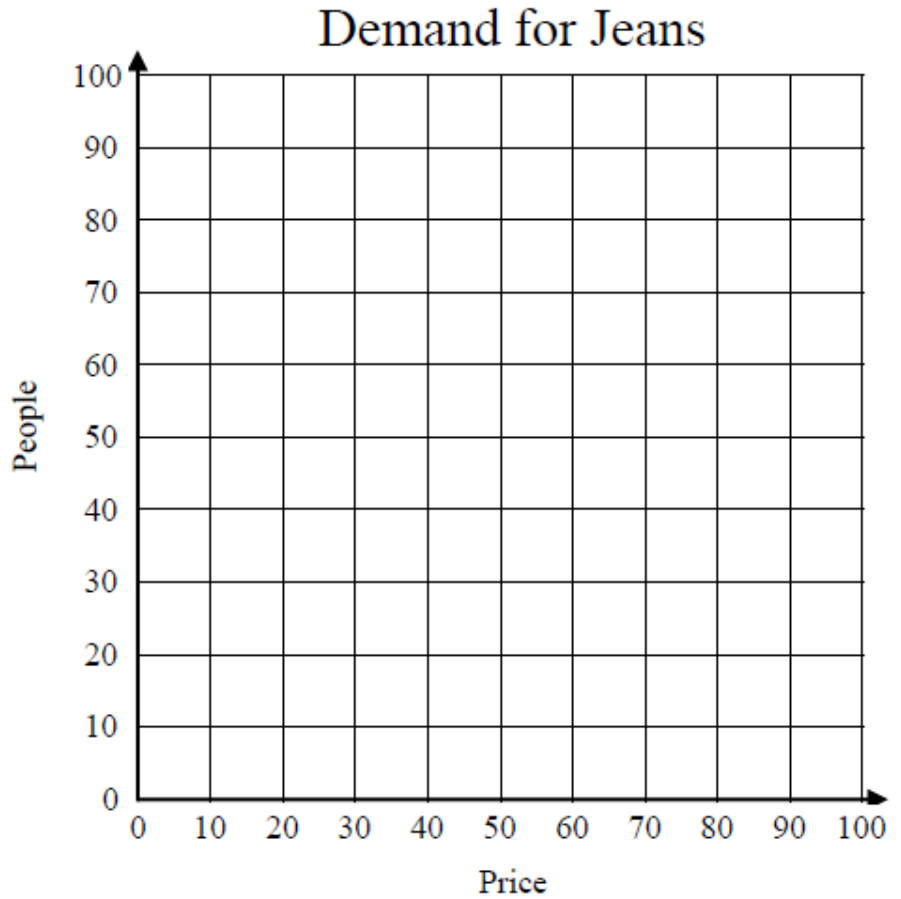# Scatter Plots

Name: _____   Period: _____

Directions: Make a scatter plot from the data table to the left. Then answer the questions about the scatter plot.

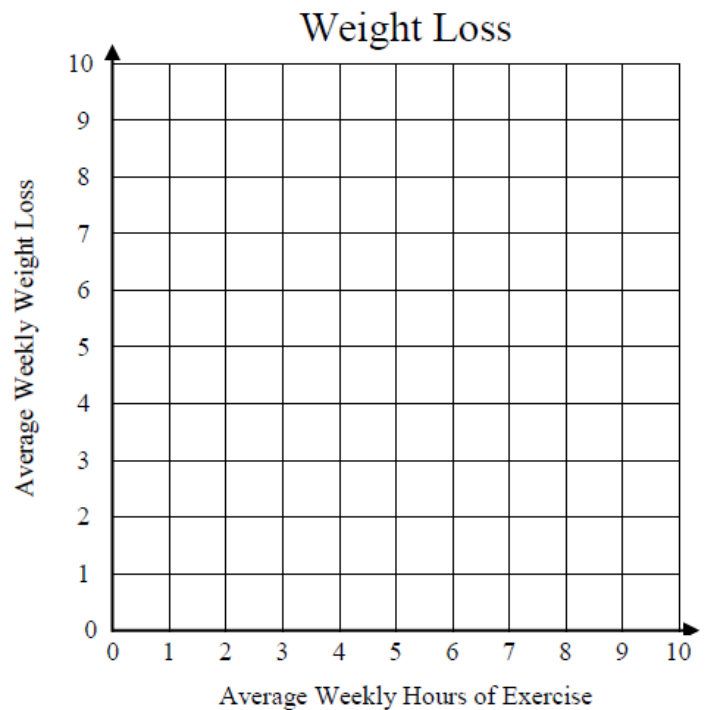The table below shows the amount people will pay for a certain pair of jeans.

Price	Amount of People
$10	89
$20	75
$30	60
$40	49
$50	39
$60	22
$70	13

Demand for Jeans

(Graph: y-axis labeled "People" from 0 to 100 in increments of 10; x-axis labeled "Price" from 0 to 100 in increments of 10.)

1. Does the data have a positive, negative, or no correlation? _____

2. Draw the Line of Best Fit.

3. What is the slope? Show all work. Round your answer to 2 decimals place values.

4. What does the slope mean?

5. What is the equation in slope intercept form of the Line of Best Fit? Round your answer to 2 decimals place values. Show all work.

The table below shows the amount of exercise per week and the amount of weight lost by 8 people.
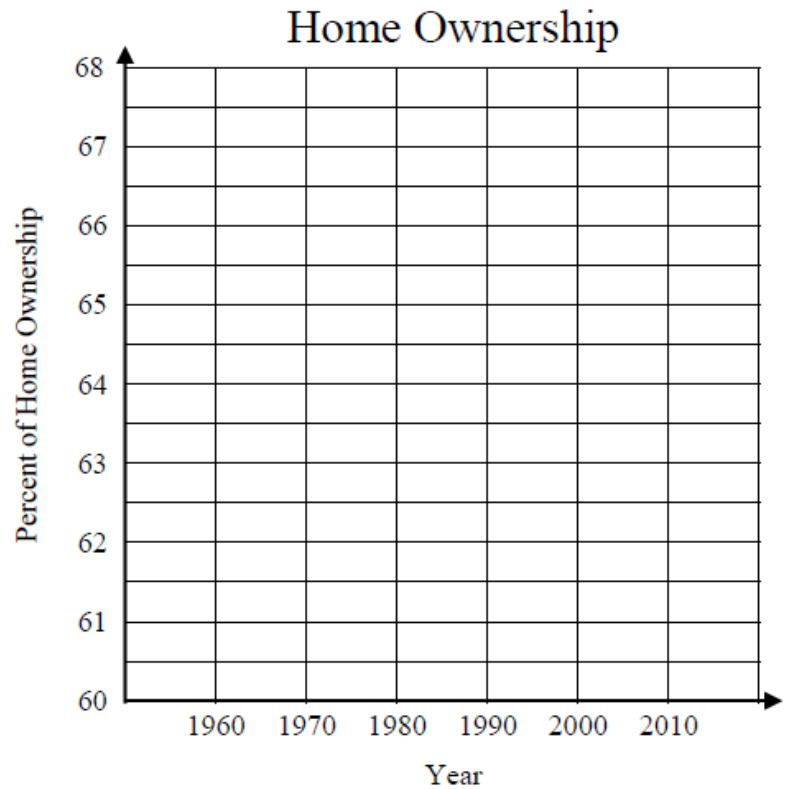
Average Weekly Hours of Exercise	Average Amount of Weekly Weight Loss
3.25	4
5.75	4.25
1.5	2.5
4	2.25
7.25	7.5
3.5	5.25
4.75	4
6	5.5

Weight Loss

Average Weekly Weight Loss

Average Weekly Hours of Exercise

6. Does the data have a positive, negative, or no correlation?_____

7. Draw the Line of Best Fit.

8. What is the *y*-intercept?_____

9. What does the *y*-intercept represent?

10. What is the slope? Round your answer to 2 decimals place values. Show all work.

11. What does the slope mean?

12. What is the equation in slope intercept form of the Line of Best Fit? Round your answer to 2 decimals place values. Show all work.

The table below shows the year and the percent of home ownership in the United States.
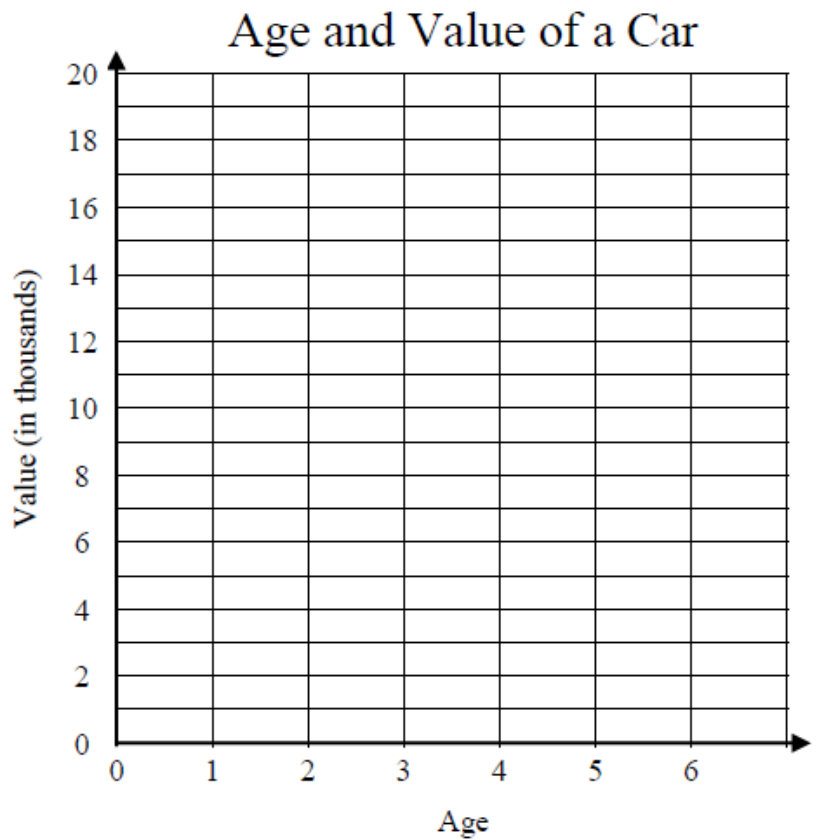
Year	Percent of Home Ownership
1960	62.1%
1970	64.2%
1980	65.6%
1990	63.9%
2000	67.4%
2010	66.8%

Home Ownership

Percent of Home Ownership (y-axis: 60, 61, 62, 63, 64, 65, 66, 67, 68)

Year (x-axis: 1960, 1970, 1980, 1990, 2000, 2010)

13. Does the data have a positive, negative, or no correlation?_____

14. Draw the Line of Best Fit.

15. What is the slope? Round your answer to 2 decimals place values. Show all work.

16. What is the equation in slope intercept form of the Line of Best Fit? Round your answer to 2 decimals place values. Show all work.

17. What would be your prediction for the percent of home ownership in the year 2015?

The table below shows the age of a car and the value of the car.

Years Owned	Value of the Car
0	$18,500
1	$14,500
2	$12,500
3	$9,000
4	$6,500
5	$4,500
6	$3,000

Age and Value of a Car

18. Does the data have a positive, negative, or no correlation?_____

19. Draw the Line of Best Fit.

20. What is the slope? Round your answer to 2 decimals place values. Show all work.

21. What is the equation in slope intercept form of the Line of Best Fit? Round your answer to 2 decimals place values. Show all work.

22. What would be your prediction for the value of the car when it is 7 years old?