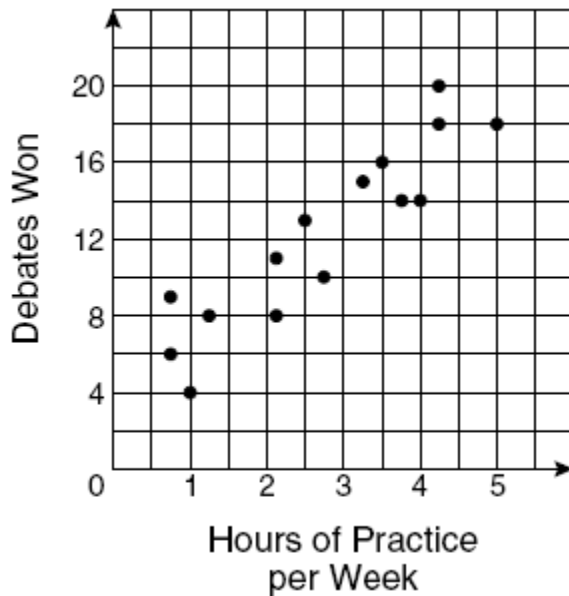


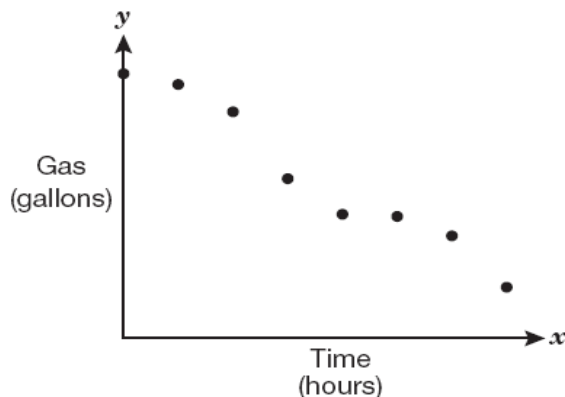
The coaches of a group of debate teams answered a survey about hours of debate, team practice and number of team wins. The graph shows the results of this survey.



1. What is the correlation of the scatter plot?

2. Based on these results, if a team practices 4 hours per week next season, find an estimate of the number of debates the team can expect to win?

Josie and some of her friends rode motorcycles all day on Saturday. She made a table that showed the number of gallons of gas remaining at the end of each hour. The scatterplot below shows the gas that remained in terms of the hours that had passed.

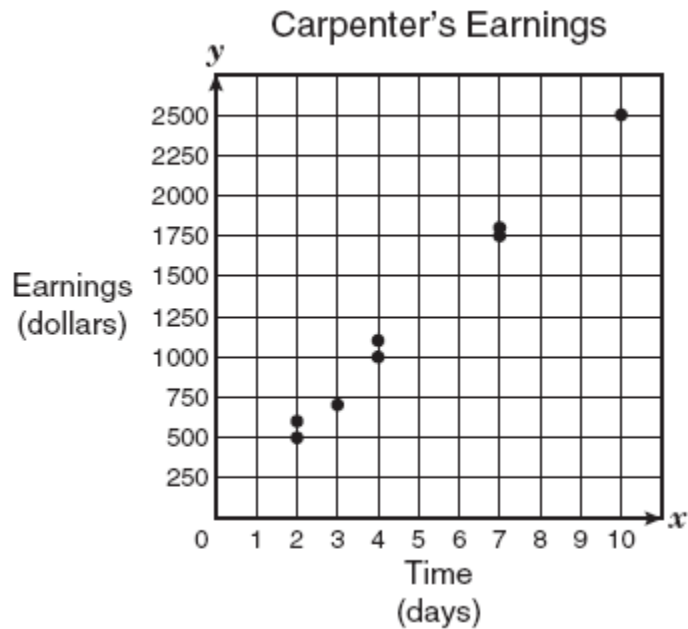


3. What is the correlation between the gas that remained and the hours that had passed?

4. Teresa records the ages and weights of 12 children in her neighborhood. If she records this data in a scatterplot, what type of relationship will she most likely see?

- A Positive correlation
- B Negative correlation
- C No correlation
- D Constant correlation

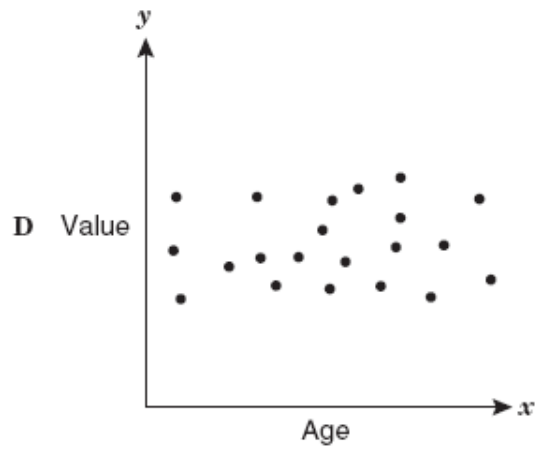
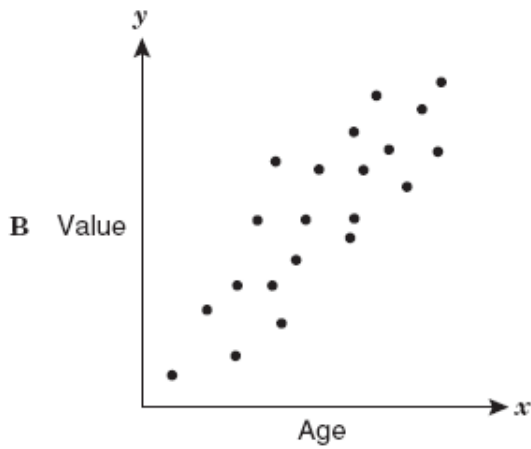
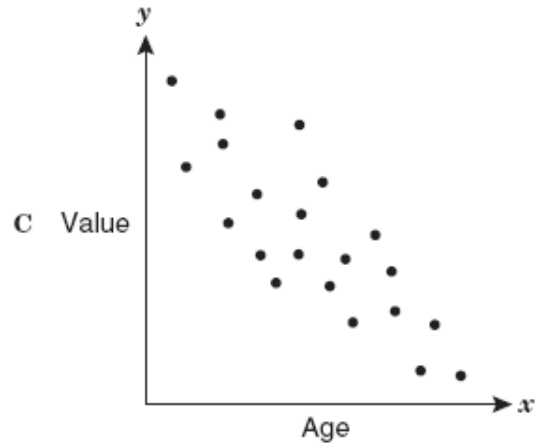
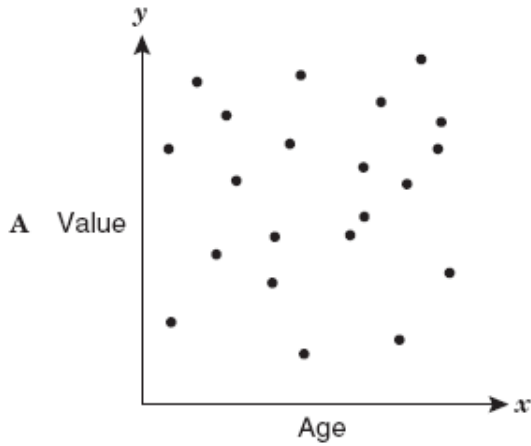
A carpenter recorded the amount of money he earned for different jobs and the amount of time he spent on each job. The data are shown in the scatterplot below:



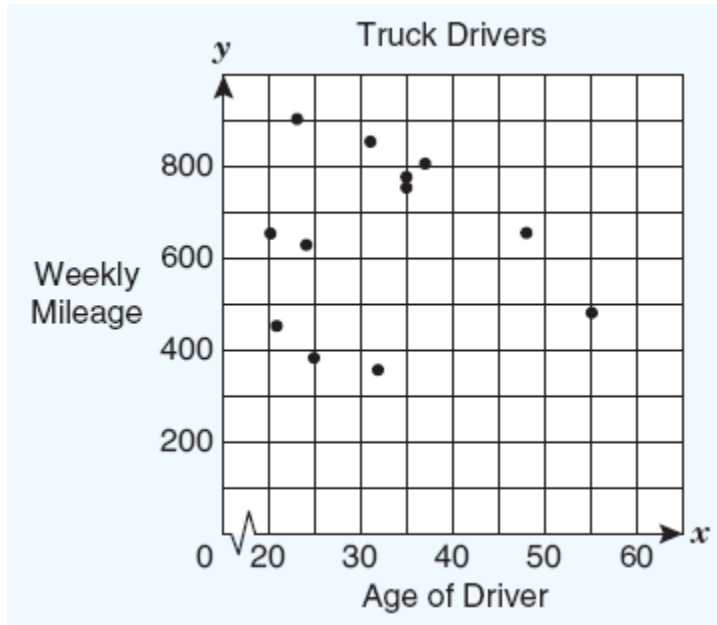
5. Based on the data, estimate the amount of money the carpenter would earn from a job that took 5 days to complete?

6. According to the graph above, the relationship between the carpenter's earnings and the amount of time he spent on jobs is:
 - A a positive correlation
 - B a negative correlation
 - C no correlation
 - D multiple correlations

7. As the age of a car increases, its value decreases. Which scatterplot best represents this relationship?



8. A trucking company keeps track of the number of miles each of its driver's logs each week. The scatterplot below shows the relationship between a driver's age and the number of miles the driver drove last week.

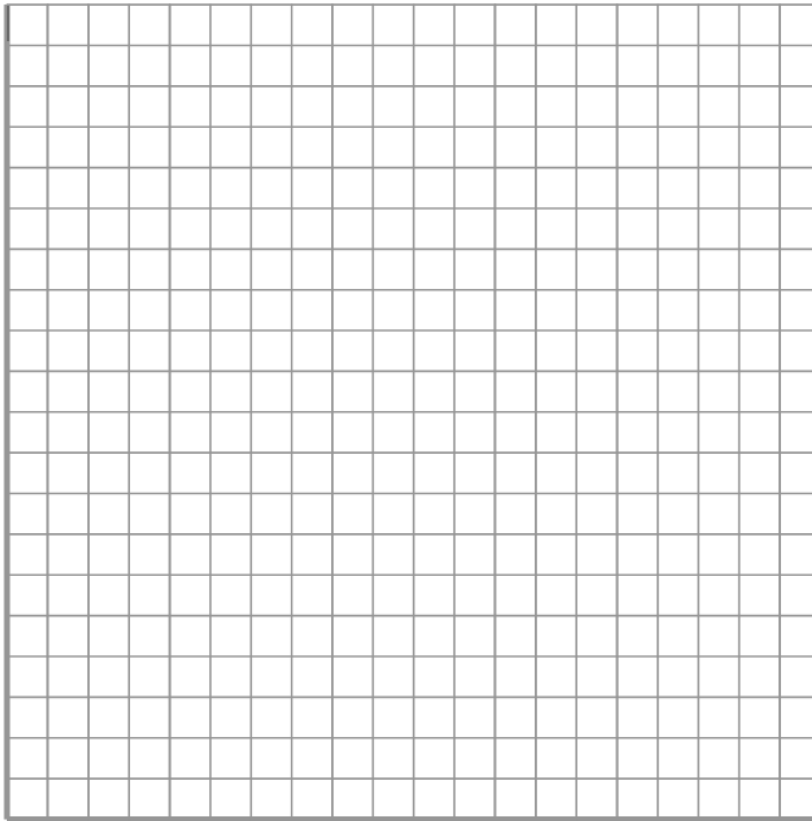


9. Describe the correlation between the number of miles a driver logs and the driver's age.

The table below shows Cobi's hours of exercise and weight loss each week.

Hours of exercise	Weight loss (pounds)
1.3	0.5
3	2.8
5	3.5
2	2.5
4	3

10. Create a scatterplot from the data in the table.



11. What type of correlation did you find between hours of exercise and weight loss?

Answer Key

1. What is the correlation of the scatter plot?

The correlation of the scatter plot is positive.

2. Based on these results, if a team practices 4 hours per week next season, find an estimate of the number of debates the team can expect to win?

If a team practices 4 hours per week, the number of debates the team can expect to win is 14.

3. What is the correlation between the gas that remained and the hours that had passed?

The correlation between the gas that remained and the hours that had passed is negative.

4. Teresa records the ages and weights of 12 children in her neighborhood. If she records this data in a scatterplot, what type of relationship will she most likely see?

The answer is: A Positive correlation

5. Based on the data, estimate the amount of money the carpenter would earn a job that took 5 days to complete?

The amount of money the carpenter would earn a job that took 5 days to complete is \$1250.

6. According to the graph above, the relationship between the carpenter's earnings and the amount of time he spent on jobs is:

The answer is: A positive correlation

7. As the age of a car increases, its value decreases. Which scatterplot best represents this relationship?

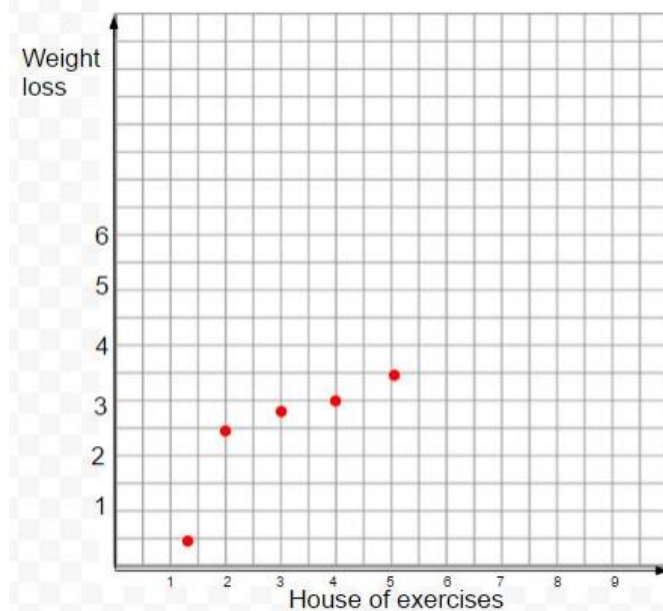
The scatterplot C best represents the relationship.

8. A trucking company keeps track of the number of miles each of its driver's logs each week. The scatterplot below shows the relationship between a driver's age and the number of miles the driver drove last week.

9. Describe the correlation between the number of miles a driver logs and the driver's age.

The correlation between the number of miles a driver logs and the driver's age is no or zero correlation.

10. Create a scatterplot from the data in the table



11. What type of correlation did you find between hours of exercise and weight loss?

The correlation between hours of exercise and the weight loss is positive.