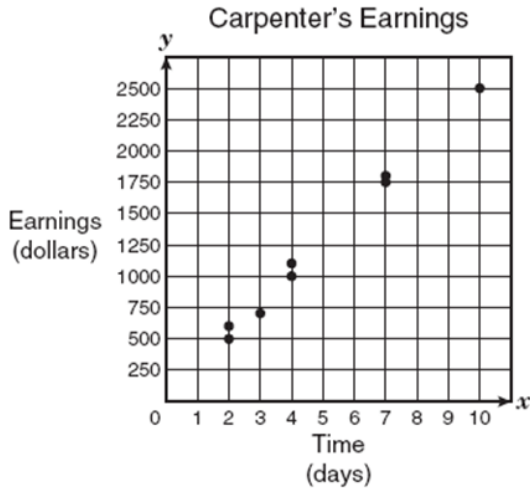


Scatterplots & Regression Remediation

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



a. What type of correlation is shown?

- A. Strong Positive
- B. Weak Positive
- C. Strong Negative
- D. Weak Negative

b. Based on the data, how much would you expect the carpenter would earn from a job that took 5 days to complete?

- A. \$2500
- B. \$500
- C. \$1250
- D. \$200

2. Match the following correlation coefficients with the correct graph.

Correlation Coefficient Choices: -0.85 -0.40 0 0.35 0.80 0.99

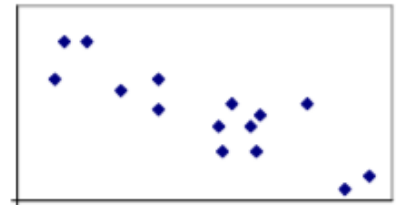
a. _____



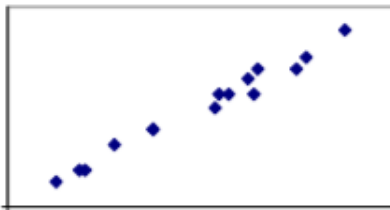
b. _____



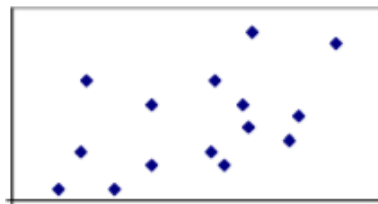
c. _____



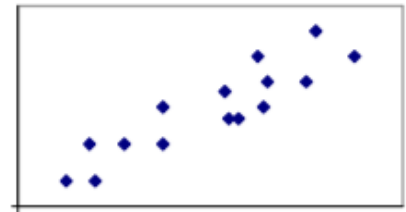
d. _____



e. _____



f. _____

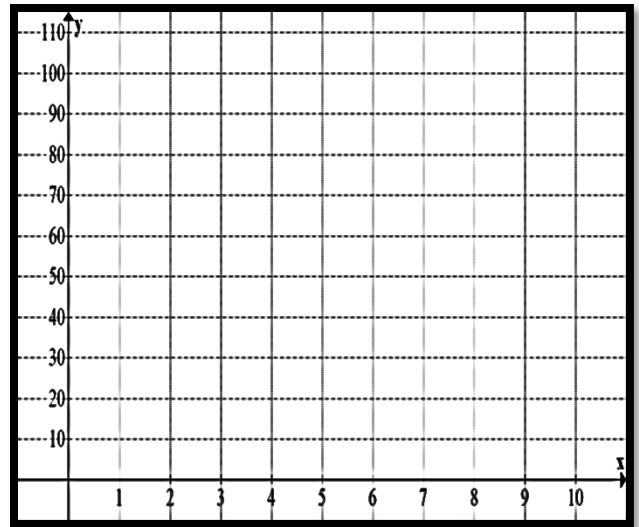


3. Determine if the following is correlation or causation:

- a. The height of a basketball player and their jersey number _____
- b. The number of tardies and the number of detentions received _____
- c. The number of hours worked and how much money you earn _____
- d. A child's weight and their vocabulary size _____

4. Create a scatterplot of the following data and answer the following questions:

	Hours Slept	Test Score
Anna	8	95
Bob	7	90
Carly	8	85
Damien	6	75
Esther	5	65
Franco	8	90
Georgia	8	80
Hank	9	95
Innya	7	80
Jacob	6	70



- Calculate the line of best fit.
- Explain what the slope means in context of the problem.
- Explain what the y-intercept means in context of the problem.
- What is the correlation coefficient (r -value). What does this tell us?