



NAME _____ DATE _____ PERIOD _____

11-6 Practice: Skills Scatter Plots

Determine whether a scatter plot of the data for the following might show a *positive, negative, or no relationship*.

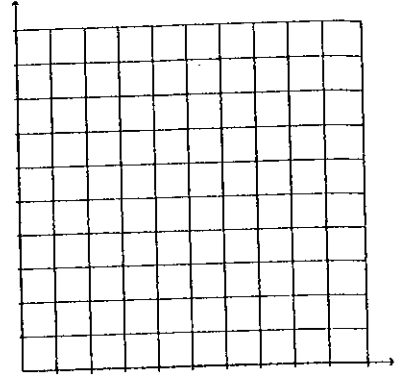
- rotations of a bicycle tire and distance traveled on the bicycle
- number of pages printed by an inkjet printer and the amount of ink in the cartridge
- age of a child and the child's shoe size
- number of letters in a person's first name and the person's height
- shots attempted and points made in a basketball game
- year and winning time in the 100-meter dash in the Olympics
- diameter of the trunk of a tree and the height of the tree
- number of a bank account and the amount of money in the bank account
- length of a taxi ride and the amount of the fare
- daily high temperature and the amount of clothing a person wears
- a person's age and a person's street address
- outside temperature and the cost of air conditioning
- the age of a car and how many people fit inside of it
- inches of rainfall in the last 30 days and the water level in a reservoir
- miles ridden on a bicycle tire and thickness of the tire tread
- population of a U.S. state and the number of U.S. senators a state has

Lesson 11-6

Name: _____

Scatter Plots

| Study Time (hours) | Final Grade (% out of 100) |
|--------------------|----------------------------|
| 1 | 56 |
| 3 | 70 |
| 5 | 82 |
| 7 | 87 |
| 10 | 99 |
| 4 | 72 |
| 6 | 89 |
| 8 | 93 |
| 9 | 55 |
| 3 | 74 |



- Which is your independent variable? _____
- Which is your dependent variable? _____
- Give your graph a title.
- Label your axes.
- Graph the points.
- What type of correlation do you see? _____
- List any outliers: _____
- Draw a line of best fit on your graph (ignore outliers).
- What is the equation of best fit? _____
- Using the line of best fit predict the grade of someone who did not study? _____
- Using the line of best fit predict the grade of someone who studied for 4 hours? _____