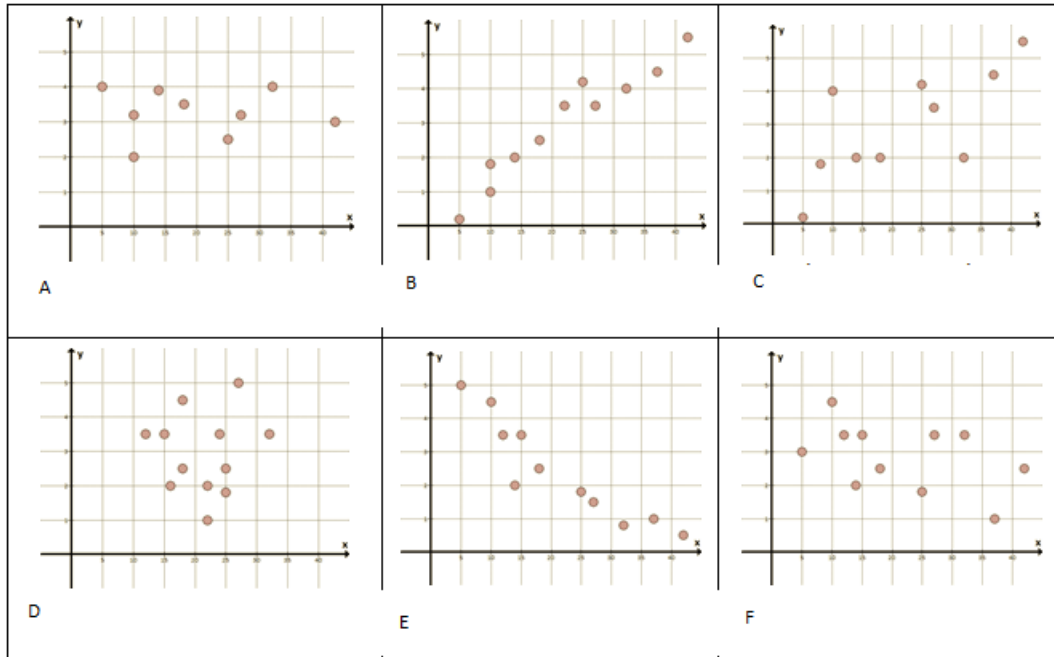


Modeling HW 6: Recognizing Correlation

Below are 6 data sets that have been graphed as scatterplots.



1. **(4 points)** Give the letter of the graph that best fits each description:

_____ This graph shows data with a strong positive correlation.

_____ This graph shows data with a strong negative correlation.

_____ This graph shows data that doesn't seem to be correlated at all.

_____ This graph shows data with positive correlation, but it's not very strong.

2. **(1 point)** Which would be *more likely* to have a positive correlation?

Time spent on homework and **Grade in class**

Age and **Grade in class**

3. **(1 point)** Which would be more likely to have a negative correlation?

Amount of rain and **Umbrella sales**

Temperature and **Cost to heat house**

4. **(2 points)** One thing that is likely to have a **positive** correlation with household income is “number of vacations a family takes per year”. Name two **other** things that are likely to have a **positive** correlation with household income. (These should also be things that can be expressed with numbers.)

5. **(1 point)** Name one thing that is likely to have a **negative** correlation with household income (also expressed with numbers).

6. **(1 point)** Name one thing that is likely to have **no** correlation with household income (again, expressed with numbers).