



Correlation vs Causation: Worksheet

Fill in the blank:

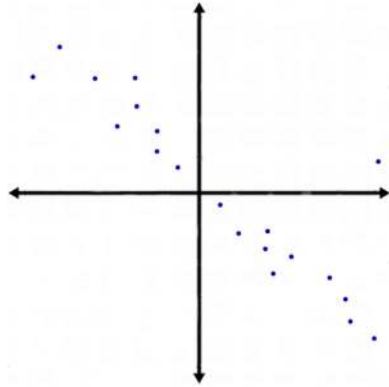
1. _____ correlated variables increase and decrease together.
2. _____ correlated variables means that one variable will increase as the other variable decreases.
3. When making predictions, it's better to use data that _____ correlates as opposed to data that _____ correlates.

Short Answer:

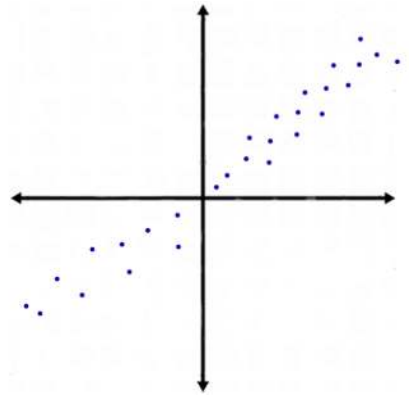
4. What's the purpose of a scatter plot?
5. List three possible explanations for why two variables may correlate.
6. What's the difference between correlation and causation?
7. Critical Thinking: Why is it important to differentiate between correlation and causation?

8. Look at the graphs below. Draw a regression line and describe the kind of correlation shown (i.e. strength and direction).

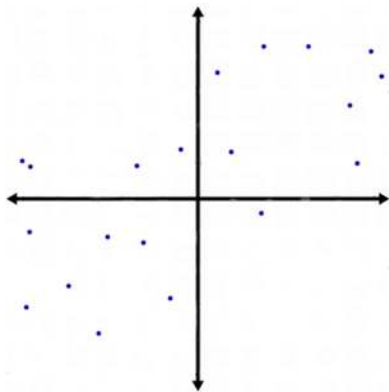
Graph A:



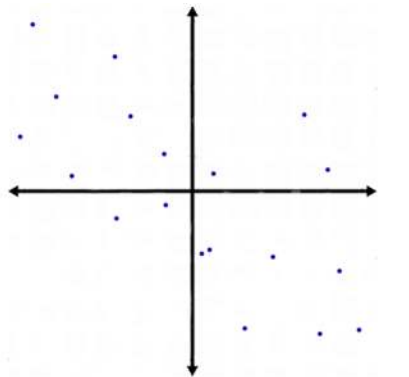
Graph B:



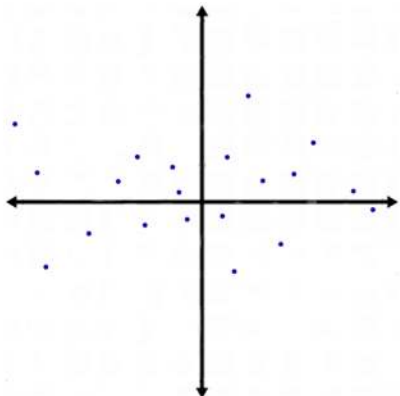
Graph C:



Graph D:



Graph E:



Graph F:

