

# Transparency Activity 2-1

## Positive and Negative Correlations

**Directions:** Use the transparency and the information provided below to answer the following questions.

1. Which type of variable is plotted on the X-axis of both graphs?

*dependent*

2. What type of correlation is shown in the graph on the left? How do you know?

*positive*

*data points trend up as move L → R*

3. What type of correlation is shown in the graph on the right? How do you know?

*negative*

*down as L → R*

4. Which of these graphs shows a cause-and-effect relationship between the variables?

*neither*

*(not the purpose of correlations)*

5. Using the data provided below, make a graph illustrating a correlation. Label the X- and Y-axis below with the two variables. Indicate which is the dependent variable and which is the independent variable.

Number of Days of School Missed	Average GPA
1-5	3.25
6-10	3.11
11-15	3.02
16-20	2.98
21-25	2.88
26-30	2.77
over 30	2.64

