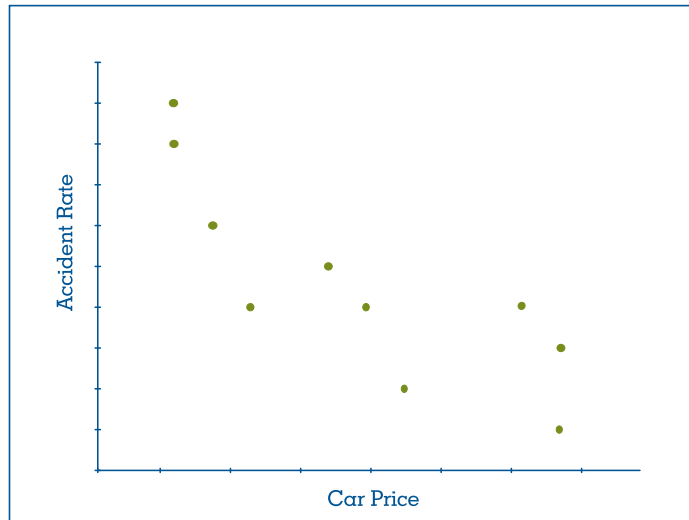


# MYSTERY GRAPHS

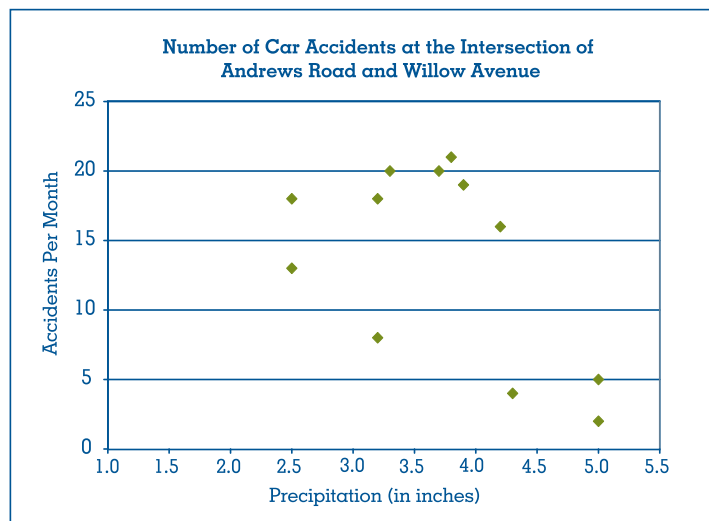
There's a new game in town: Mystery Graphs! It's simple, but it challenges you to use logic and creativity to determine what a graph is really saying. You've already seen that graphs can be both correct *and* misleading. It's important to think critically when considering what a graph is telling you.

Look at the following graphs. For each graph, create a list of reasons that the relationship shown might be valid and a list of reasons that the relationship might be misleading. List as many convincing reasons as you can think of in both categories. You will receive points for each unique reason (that is, not listed by anyone else) that you list.

## Mystery Graph 1: Are you safer in a more expensive car?

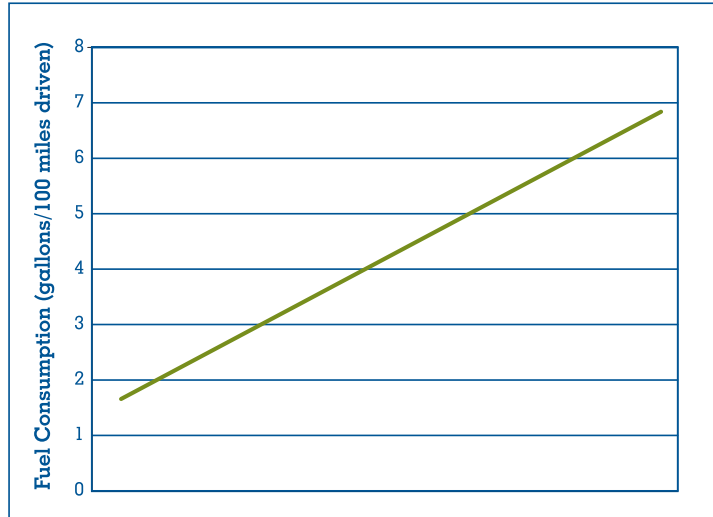


## Mystery Graph 2: Does precipitation reduce the accident rate?



More graphs to ponder . . . What might be the root causes behind these graphs?

**Mystery Graph 3:** What might be the cause of the increased fuel consumption represented by the  $x$ -axis in this graph?



**Mystery Graph 4:** What might account for the fluctuations in gas mileage shown in this graph?

