

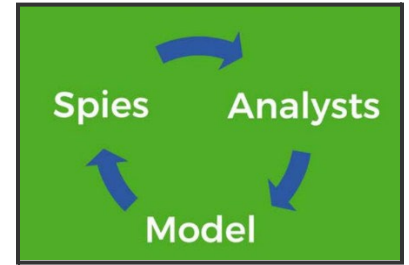
Name: _____

Date: _____

Driving for Gas Modeling Problem

The Problem

Gas prices change on a nearly daily basis, and not every gas station offers the same price for a gallon of gas. The gas station selling the cheapest gas may be across town from where you are driving. **Is it worth the drive across town for less expensive gas?** Create a mathematical model that can be used to help understand under what conditions it is worth the drive.



Step 1: Spies—What information do I need and how do I acquire it?

- Do I understand the problem?
 - Can I make a simpler more concrete problem to work with?
 - Can I draw a graph, table, picture, or other representation to help me understand it?

- What information do I need?

- How will I acquire it?

- What assumptions am I going to make? What facts or statements am I going to take for granted?

