**1.Topic**

International Car Manufacturing Quality

**2.Principle Question**

Does the competition in the international car market for car manufacturing quality to be less than ideal?

**3.Hypothesis and Null Hypothesis**

Increased international automotive competition has led to reduction in the price of cars.

Null Hypothesis: There is no correlation between international automotive competition and prices of cars.

**4.Identification of Independent Variable**

Car manufacturers in a designated area selling the same class of vehicle.

**5.Identification of Dependent Variable**

Car price depending on class of vehicle.

**6.Measure of Independent Variable**

To measure the Independent Variable, we must first set up the designated areas I spoke of in #4. I would use smaller towns in many countries as these designated areas, as purchasing is less concentrated in these towns and the chance for competition is actually less. For car classes, I would focus on: Trucks, sedans, sports cars. From there, I can determine which manufacturer is selling which class of car in which designated area.

**7.Measure of Dependent Variable**

From the list produced in #6, I would determine the average cost of each class of car for each manufacturer in each designated area.

**8.Testing Design and Null Hypothesis**

Gather data in the designated area set forth in #6 for Manufactureres, Vehicle class, and car price, then compare the data. A test of the null hypothesis involves the data showing that vehicle build quality is not affected due to international competition.

**9.Expected Results**

If I tested this, I would expect build quality to be degraded due to cost-cutting because of increased international competition.

**10.Further Questions**

1.Do the build quality change for hyper/supercars?

2. Does the country of origin of manufacturers affect the car’s build quality?

3. Does international competition and cost-cutting force car manufacturers to build factories in countries they are trying to sell cars in?