Scientific Method Practice

Use the steps of the scientific method to inquire about each situation.

**Situation 1**: Mr. Gutt has horrible heartburn after eating tacos.

Problem:

Hypothesis:

* Independent Variable
* Dependent Variable
* Constant Variable(s)

Experiment:

**Situation 2**: Farmer Bob notices that his corn is higher in one field than in the other.

Problem:

Hypothesis:

* Independent Variable
* Dependent Variable
* Constant Variable(s)

Experiment:

**Situation 3**: John’s biology class investigated the effect of various aged grass compost products on plant growth. Because decomposition is necessary for release of nutrients, the group hypothesized that older grass compost would product taller bean plants. Three flats of bean plants (25 plants/flat) were grown for 5 days. The plants were then fertilized as follows:
a) 450 g of three-month old compost

b) 450 g of six-month old compost

c) 0 g compost

The plants received the same amount of sunlight and water each day. At the end of 30 days the group recorded the height of the plants in centimeters.

Problem:

Hypothesis:

* Independent Variable
* Dependent Variable
* Constant Variable(s)

Data (create a data table to show what John’s class measured):

Why did John’s class test group C (0 g compost)?

This is called a:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_