

For the following experiments, determine the independent, dependent variables and control group.

1. Gina wants to determine which liquid works best for growing beans. She watered one with diet coke, one with lemonade and one with plain water. After one week she measured how high each had grown.

Plant watered with plain water

How much the plant had grown

Plant watered with diet coke
or lemonade

Dependent variable

Independent variable

Control Group

2. Jason wants to find out what fertilizer ratio works best for growing sunflowers. He put 13-13-13 on one plant, 20-10-20 on another plant and no fertilizer on a third plant. He measured each plant's growth after two weeks. In this experiment, the various fertilizer ratios is the independent variable. The amount of growth is the dependent variable and the plant with no fertilizer is the control group.