Determining Variables 2

1. Megan and Lauren are interested in conserving water due to their studies in biology. They want to know how many liters of water comes out of the faucet in 5 minutes, when it is closed, fully opened and half way opened.

   a. What is the independent variable? _____

   b. What is the dependent variable? _____

   c. What are some controls? _____

2. Scott and Anna have a desire to determine how fast candles burn; they are budding pyromaniacs, who enjoy spending their free time watching fires. They get 5 different candles with different heights and let them burn. They record the time it takes for the candles to burn and go out.

   a. What is the independent variable? _____

   b. What is the dependent variable? _____

   c. What are some appropriate controls? _____

3. Todd and Mary have a fertilizer they want to research. They want to see how much fertilizer will result in the best height and number of leaves on the plant. They decide to use beans and 1 g, 3 g, 5 g and 7 g of fertilizer to see which plant will grow the tallest and have the most leaves.

   a. What is the independent variable? _____

   b. What is the dependent variable? _____

   c. What are the appropriate controls? _____

4. Andrew and Jason decide they are going to build a car from scratch. They need to know if you increased the voltages if the electric motor will turn faster? They decide to use 30 V, 90 V, and 120 V to see how fast the car will go.

   a. What is the independent variable? _____

   b. What is the dependent variable? _____

   c. What are some appropriate controls? _____