Variable Worksheet

Name:_____

For each question identify the independent variable (IV), dependent variable (DV), and 2 controlled variables for each scenario.

1) John wanted to find out what fertilizer works best for growing Roses. He put Miracle Grow on one, Scotts fertilizer on one, NO Name Fertilizer on one, and no fertilizer on another with just pure water. John counts <u>how many petals are on each rose</u> after 1 week.

a) Independent Variable is ___Fertilizer___

b) Dependent Variable is ___how many petals on each rose___

c) Controlled Variable ___Type of Flower (Rose)___

Controlled Variable ___Do the research at same time___
→ give same amount of water
→ same pot

2) Sue wanted to see if eating apples would help her to do better on her class work. The first day, she didn't eat any apples, On day 2, she ate one apple; on day 3 she ate 2 apples; and on day 4, she ate 3 apples. Each day, she recorded the graded she got on her math work.

a) Independent Variable is _how many apples she ate_

b) Dependent Variable is _Grade on her math_

c) Controlled Variable _Same kind of apples_

Controlled Variable _She kept the subject (Math) the same_
→ Same size apple

Independent → Scientist changes

Dependent → Scientist measures / observes

Controlled → Scientist must keep same