Using Scientific Method

The following describes an experiment to determine the effects of addtional nitrogen on plant growth. Read the paragraph carefully, then answer the questions.

Dr. Row set up an experiment in which she planted bean seeds in two groups, A and B. After the seeds germinate, Group A was fed a balanced application of fertilizer with additional nitrogen, as recommended by most plant growers. Group B was grown under identical conditions, except the fertiler they received contained no additional nitrogen. Dr Row observed the plants for 1 month.You see the results in Figure 1 below.

Figure 1

1) What was the hypothesis for this experiment? (Use IF....THEN....Statement)

If I put extra N_2 on plants Then the plants will grow bigger Because it is recommended by most plant growers.

2) Which plants represents the control group? Explain your answer.

Group B , b/c most people don't have N_2 at home.

3) Which plants represent the experimental group? Why is this group of plants the experimental group?

Group A , b/c we gave it extra N_2

4) What is the independent variable(s)?

Amount of N_2

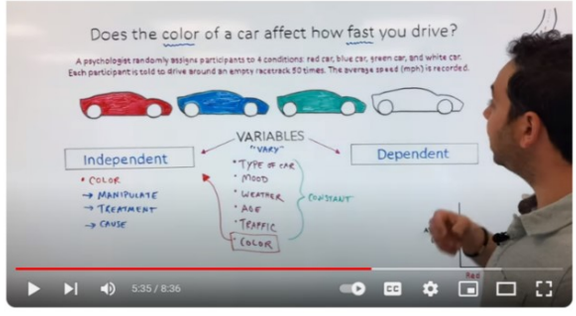
5) What is the dependent variable(s)?

Count Leaves

6) List all controlled variables in this experiment:

Type of plant , amount of water, Amount of light
Type of pot . . . Type of soil , Amount of soil

Independent and Dependent Variables - YouTube



Independent and Dependent Variables

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