

Hypothesis Practice!

Directions: Fill in the “if-then” statements based on the given question. Circle whether each variable is dependent or independent.

1. **Question:** What effect does studying with music have on test scores?

Hypothesis: If _____ (independent/dependent) is related to _____ (independent/dependent)
then _____.

2. **Question:** What effect does food color have on the amount of food fish eat?

Hypothesis: If _____ (independent/dependent) is related to _____ (independent/dependent)
then _____.

3. **Question:** What effect does light have on plant growth?

Hypothesis: If _____ (independent/dependent) is related to _____ (independent/dependent)
then _____.

4. **Question:** What effect does smiling have on teacher giving homework?

Hypothesis: If _____ (independent/dependent) is related to _____ (independent/dependent)
then _____.

5. **Question:** How often will a person get sick if they take a vitamin pill every day?

Hypothesis: If _____ (independent/dependent) is related to _____ (independent/dependent)
then _____.

6. **Question:** What affect do predators have on prey?

Hypothesis: If _____ (independent/dependent) is related to _____ (independent/dependent)
then _____.

7. **Question:** Do males and females lose the same amount of hair?

Hypothesis: If _____ (independent/dependent) is related to _____ (independent/dependent)
then _____.

Read the follow news broadcast and answer the scientific method questions that follow.

During the first week of the 2012-2013 school year, 200 seventh grade students became severely ill. Health officials examined the scene and found that 100 of the 200 students had class in room 404. After a close inspection of the room, the officials found a population of 1 million cockroaches thriving within the walls and woodwork of the room. Water throughout the school was also inspected and found to be abnormally brown colored. Last, it was found that school lunch menus remained unchanged throughout the week in question. More details will be presented as they are found.

Step 1: What question was being answered?

Step 2: Describe the type of research conducted.

Describe the BEST explanation for where/why the students got sick.

Step 3: What is the dependent variable? _____

What is the independent variable? _____

If _____ is related to _____

then _____.

Step 4: How might health officials test this hypothesis?