DEPENDANT & INDEPENDENT VARIABLES

IDENTIFY THE INDEPENDENT AND DEPENDENT VARIABLE :

1. Plants that get regular watering grow taller.
   a) Independent variable : water
      Dependent variable : plants growth.
   b) Independent variable : smoking
      Dependent variable : lung cancer
   c) Independent variable : head start
      Dependent variable : grades
   d) The amount of chromium increased or not increased

IDENTIFY THE INDEPENDENT AND DEPENDENT VARIABLE :

2. People who smoke cigarettes have a higher incidence of lung cancer.
   a) Independent variable: head start
      Dependent variable: grades
   b) Independent variable: water
      Dependent variable: plants growth.
   c) The amount of chromium increased or not increased
   d) Independent variable: smoking
      Dependent variable: lung cancer

IDENTIFY THE INDEPENDENT VARIABLE FOR THE HYPOTHESIS:

3. Fertilizer will increase the rate of grass growth
   a) Special cream or no special cream
   b) Rate of grass growth
   c) Fertilizer or no fertilizer
   d) Retardant or no retardant

4. Variables
   a) all the parts of the experiment that remain the same during an experiment
   b) factors that might change in an experiment
   c) observation that is in numbers
   d) test scores

IDENTIFY THE INDEPENDENT AND DEPENDENT VARIABLE :

5. At-risk children attending head start programs get better grades in reading in second grade.
   a) Independent variable: smoking
      Dependent variable: lung cancer
   b) Independent variable: water
      Dependent variable: plants growth
   c) Independent variable: head start
      Dependent variable: grades
   d) The amount of chromium increased or not increased

6. Hypothesis
   a) Test scores
   b) Testable explanation of a question or problem (educated guess)
   c) It is a process that is used to answer questions about the world
   d) Observation that is in numbers

7. Quantitative
   a) Rate of hair growth
   b) Observation that is in numbers
   c) Rate of grass growth
   d) Test scores

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8. Independent variable
   a) All the parts of the experiment that remain the same during an experiment
   b) Independent variable: head start
      Dependent variable: grades
   c) The part of the experiment that is being changed or manipulated to see if it has an effect.
   d) Independent variable: smoking
      Dependent variable: lung cancer

9. Dependent variable
   a) The part of the experiment that you measure. It changes based on the effect of the Independent variable.
   b) All the parts of the experiment that remain the same during an experiment
   c) Independent variable : smoking
      Dependent variable : lung cancer
   d) Independent variable : head start
      Dependent variable : grades

IDENTIFY THE DEPENDENT VARIABLE FOR THE HYPOTHESIS:

10. Drinking extra water before a test will improve test scores
    a) marital status
    b) extra water or no extra water
    c) test scores
    d) grades

IDENTIFY THE DEPENDENT VARIABLE FOR THE HYPOTHESIS:

11. Fertilizer will increase the rate of grass growth
    a) Number of cavities
    b) Rate of grass growth
    c) Proximity of surface water
    d) Rate of hair growth

12. Qualitative
    a) Using your senses (look, touch, smell, describe) to gather information
    b) Observation that is in numbers
    c) Testable explanation of a question or problem (educated guess)
    d) Observation in the form of words

IDENTIFY THE INDEPENDENT VARIABLE FOR THE HYPOTHESIS:

13. Hair will grow faster if a special cream is applied
    a) Special cream or no special cream
    b) The age of the person using the cream
    c) The length of hair before application
    d) The color of the cream being used

14. Observation
    a) Using your senses (look, touch, smell, describe) to gather information
    b) Observation that is in numbers
    c) Observation in the form of words
    d) Testable explanation of a question or problem (educated guess)

IDENTIFY THE DEPENDENT VARIABLE FOR THE HYPOTHESIS:

15. Hair will grow faster if a special cream is applied
    a) size of the hair bulb
    b) rate of hair growth
    c) angle of the hair root
    d) size of their hair bulb

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IDENTIFY THE INDEPENDENT VARIABLE FOR THE HYPOTHESIS:

16. Drinking extra water before a test will improve test scores

a) The time of day the test is administered
b) The difficulty level of the test
c) The type of test taken
d) Extra water or no extra water

17. Scientific Method

a) Testable explanation of a question or problem (educated guess)
b) It is a process that is used to answer questions about the world
c) Observation that is in numbers
d) A procedure that will test the hypothesis

IDENTIFY THE INDEPENDENT VARIABLE FOR THE HYPOTHESIS:

18. A steel alloy will be stronger if the amount of chromium is increased

a) Strength of the steel alloy
b) Retardant or no retardant
c) The amount of chromium increased or not increased
d) The part of the experiment that you measure. It changes based on the effect of the Independent variable.

19. Example of dependent variable

a) Independent variable: water
Dependent variable: plants growth.
b) In an experiment, a water flea is given caffeine to see how much it increases the little booger's heart rate. Caffeine is What?
c) It is a process that is used to answer questions about the world
d) If one studies for a test, the grade on the test will be better. Grade is what?

20. Example of independent variable

a) Independent variable: water
Dependent variable: plants growth.
b) It is a process that is used to answer questions about the world
c) In an experiment, a water flea is given caffeine to see how much it increases the little booger's heart rate. Caffeine is What?
d) If one studies for a test, the grade on the test will be better. Grade is what?

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