

1.

The variable that is changed  
by the scientist is the

\_\_\_\_\_?  
variable.

2.

The independent variable is  
sometimes called the

\_\_\_\_\_?  
variable.

3.

The dependent variable is  
sometimes called the

\_\_\_\_\_?  
variable.

4.

The a variable that stands  
alone and isn't changed by  
the other variables you are  
trying to measure.

\_\_\_\_\_?  
variable.

5.

The variable that is observed and measured by the scientist is the \_\_\_\_\_?\_\_\_\_\_ variable.

6.

Variables that are kept from changing, or held constant, are called \_\_\_\_\_?\_\_\_\_\_ variables.

7.

The variable that "causes" a change is the \_\_\_\_\_?\_\_\_\_\_ variable.

8.

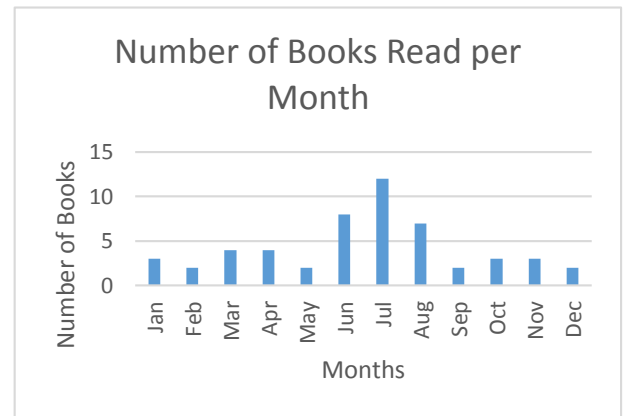
The variable that is the "effect" is the \_\_\_\_\_?\_\_\_\_\_ variable.

9.

When something is observed or measured over a period of time, TIME is the \_\_\_\_\_? \_\_\_\_\_ variable.

10.

Identify the dependent variable.



11.

What is the effect of increasing slope on the amount of erosion?

Identify the independent variable.

12.

What is the effect of air pollution on stone statues?

Identify the independent variable.

**13.**

*If mass is increased, then acceleration will decrease.*

Identify the dependent variable.

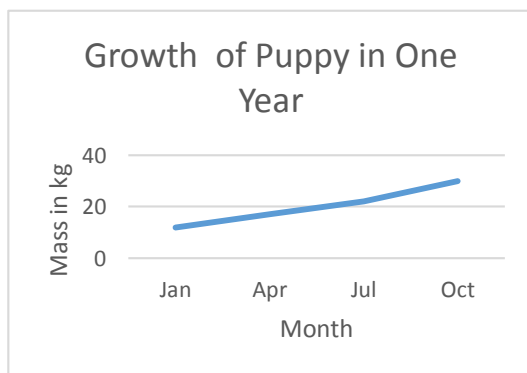
**14.**

*How does the amount of sunlight affect plant growth?*

Identify a controlled variable.

**15.**

Identify the independent variable.



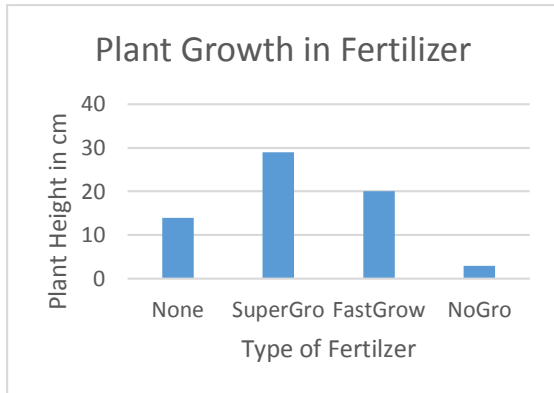
**16.**

*How does the time of year affect the amount of daylight a location receives?*

Identify the dependent variable.

17.

Identify a controlled variable



18.

*How does light intensity affect photosynthesis?*

Identify the independent variable.

19.

*As the porosity of soil increases, the amount of water it can hold decreases.*

Identify the dependent variable.

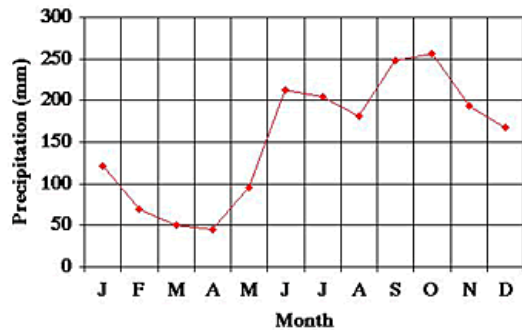
20.

*If temperature increases, then chemical weathering will increase.*

Identify the independent variable.

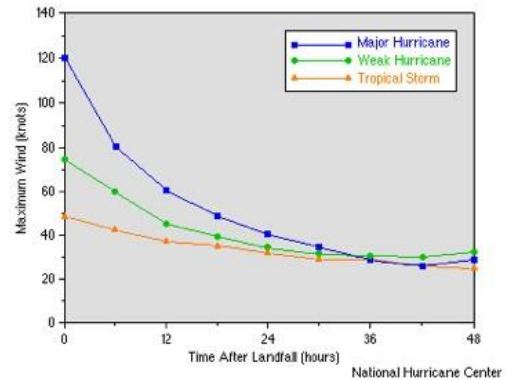
21.

Identify the independent variable.



22.

Identify the dependent variable.



23.

How does exercise affect heart rate?

Identify a controlled variable

24.

A comparison of plant growth in and out of greenhouses.

Identify a controlled variable

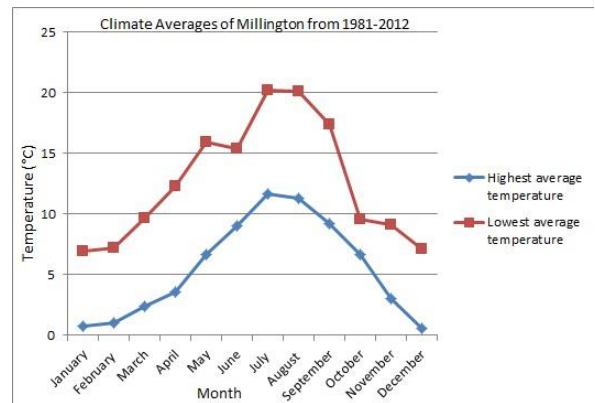
25.

*Do singers have a larger lung capacity than non-singers?*

Identify the dependent variable.

26.

Identify the independent variable.



27.

*Extreme temperatures and its effect on the growth of bacteria*

Identify the dependent variable.

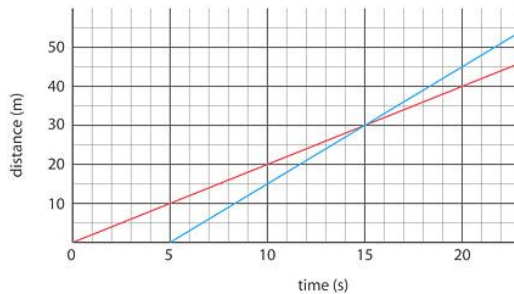
28.

*Is there a relationship between the pH of soil and plant growth?*

Identify the independent variable.

29.

Identify the independent variable.



30.

*Is there a relationship between gender and lung capacity?*

Identify a controlled variable

31.

*If loud noises are present, then reaction time will decrease.*

Identify the independent variable.

32.

*The effect of exercise on memory.*

Identify the dependent variable.



33.

Is there a relationship between a person's height and the length of his or her stride?

Identify the dependent variable.

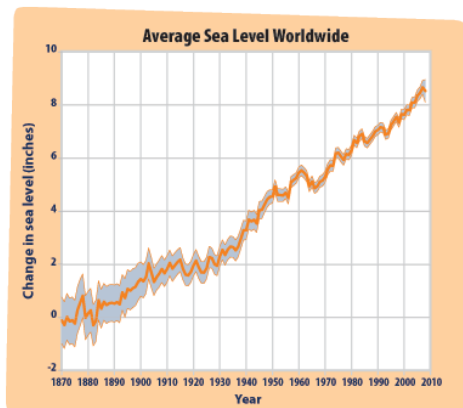
34.

How does the depth of the ocean affect its temperature?

Identify a controlled variable

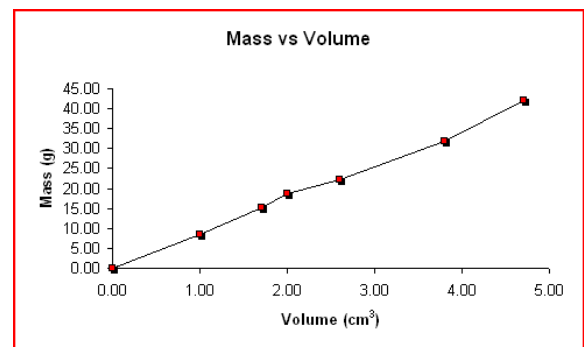
35.

Identify the independent variable.



36.

Identify the independent variable.



37.

The relationship between the shape of a parachute and its drop velocity

Identify the independent variable.

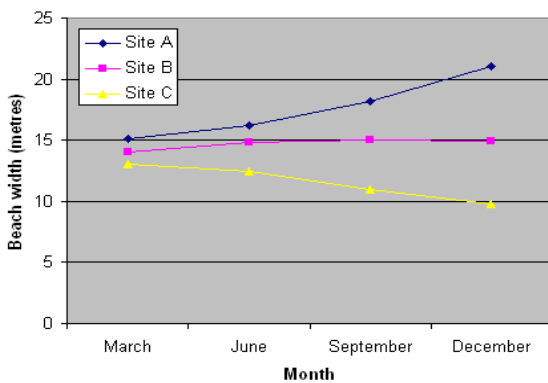
38.

How do different angles of solar rays impact the performance of a solar cell?

Identify the dependent variable.

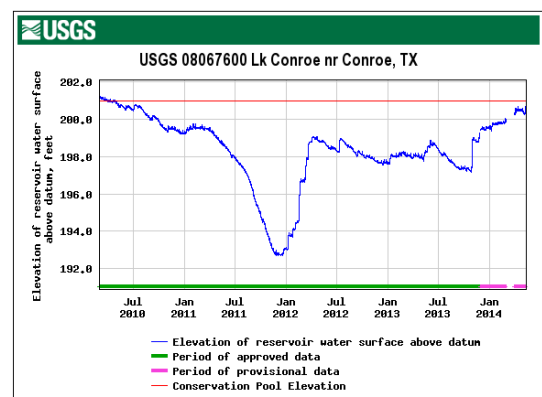
39.

Identify the independent variable.



40.

Identify the dependent variable.



Name \_\_\_\_\_

### Identifying Variables Task Cards

1.	21.
2.	22.
3.	23.
4.	24.
5.	25.
6.	26.
7.	27.
8.	28.
9.	29.
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