Name_____Date _____Period_____

Smithers thinks that a special juice will make his workers work faster. He creates two groups of 50 workers each and assigns each group the task of stapling papers. Group A is given the special juice to drink while they work. Group B is not given the special juice. After an hour, Smithers counts the stacks of papers stapled. Group A made 1,587 stacks, Group B made 2,113 stacks.

What is the Independent variable?	What is the Dependent variable?	Is this experiment controlled?	What should Smithers' conclusion be?

Homer notices that his shower is covered in a strange green slime. His friend Barney tells him that coconut juice will get rid of the slime. Homer decides to check this out by spraying half the shower with coconut juice. He sprays the other side with the same amount of water. After 3 days of spraying there is no change in the amount of slime.

What is Homer's initial observation?	What is the Independent variable?	What is the Dependent variable?	Is this a quality controlled experiment?

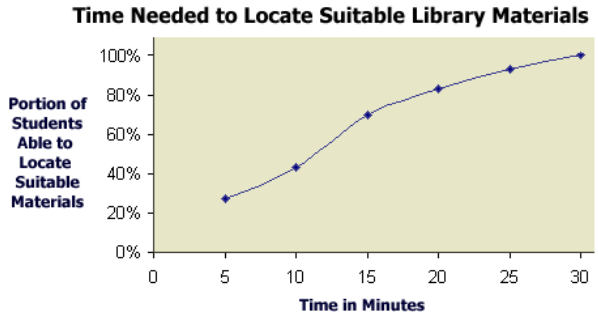
Bart believes that mice exposed to microwaves will become extra strong. He decides to perform this experiment by placing 10 mice in a microwave for 10 seconds and compares their performance to a group of 10 non-microwaved mice. He has each group try and move a block of wood that is in front of their food. He found 8 out of the microwaved mice moved the block away. Seven of the non-microwaved mice moved the block.

What is Bart's hypothesis?	Is this experiment controlled?	What is the Independent variable?	What is the Dependent variable?

Krusty has invented a new itching powder Itchlicious. He thinks Itchlicious will make people itch longer than his old itching powder. He sprinkles some Itchlicious on his cat and some on his dog to see how long they itch.

What is the Independent variable?	What is the Dependent variable?	Is this experiment Controlled?	How could he make this experiment better?

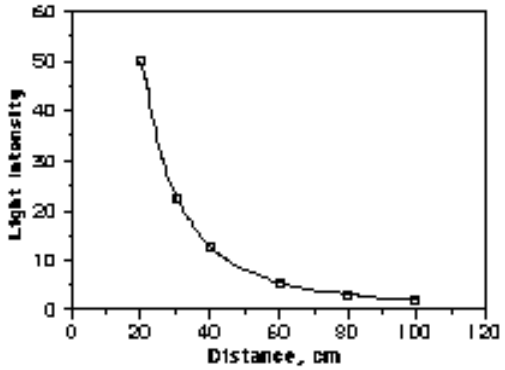
Name_____Date _____Period_____



What is the independent variable?

What is the dependent variable?

How are the two variables related?



What is the independent variable?

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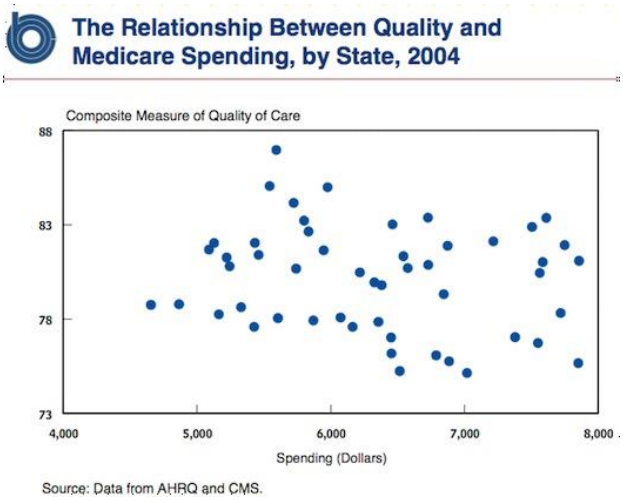
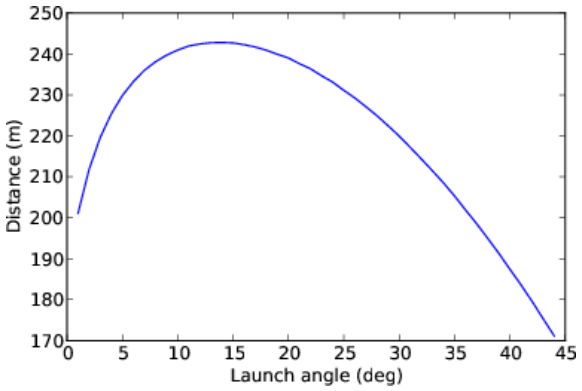


What is the independent variable?

What is the dependent variable?

Are the two variables related?

How could this graph be improved?



What is the independent variable?

What is the dependent variable?

Are the two variables related?

How could this graph be improved?