Cleaning Pennies:

A controlled Experiment is one in which only one variable is tested at a time. In order to perform a good experiment it is best to control as many variables as possible in order to isolate the one you are testing for.

Which solution will clean pennies the best?

Solutions:		
Soap and water	Ketchup	
Coke	Vinegar	Water
Observations:		
(Need to record observations of penny so you can sl	how any type of change)	
1. Create a hypothesis that identifies which solution	will clean the pennies the best:	
(Remember a hypothesis has to be a testable statem	ent.)	
Hypothesis:		
2. Identify 5 controlled variables:		
(Remember controlled variables are factors within ar	n experiment that a scientist purp	oosely keeps the same.)
2. Identificable independent contable.		
3. Identify the independent variable:		
(The independent variable is a factor within an exper	iment that a scientist purposely o	changes.)
4. Identify the control:		
(The control is a factor within an experiment that isn independent variable)	't supposed to change. Scientists	use it to compare to the
5. Identify the dependent variables:		
(The dependent variable is the "ta-da!" or what happ	pened. Usually the dependent va	riable is shown with data.)
Quantitative data:	Conclusion: (Was your and why.)	hypothesis correct or not
Qualitative data:		