You submitted this quiz on Sun 25 Jan 2015 7:07 AM PST. You got a score of 20.00 out of 20.00.

Question 1

We take a random sample of individuals in a population and identify whether they smoke and if they have cancer. We observe that there is a strong relationship between whether a person in the sample smoked or not and whether they have lung cancer. We claim that the smoking is related to lung cancer in the larger population. We explain we think that the reason for this relationship is because cigarette smoke contains known carcinogens such as arsenic and benzene, which make cells in the lungs become cancerous.

Your Answer		Score	Explanation
This is an example of a mechanistic data analysis.			
This is an example of an descriptive data analysis.			
This is an example of a predictive data analysis.			
This is an example of an inferential data analysis.	~	4.00	
Total		4.00 / 4.00	

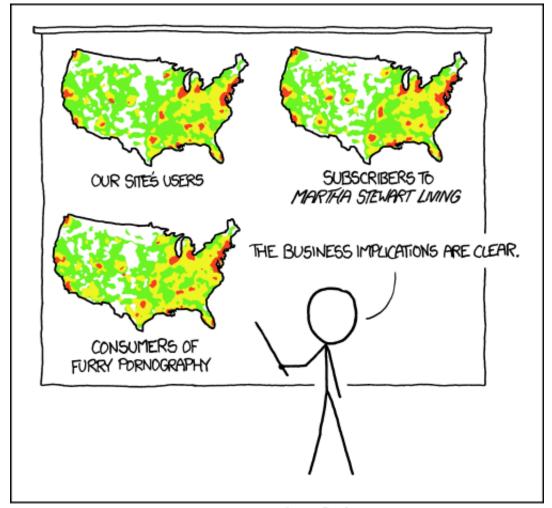
Question 2

What is the most important thing in Data Science?

Your Answer		Score	Explanation
The data.			
Machine learning and prediction.			
The question you are trying to answer.	~	4.00	
Statistical inference.			
Total		4.00 / 4.00	

Question 3

If the goal of a study was to relate Martha Stewart Living Subscribers to Our Site's Users based on the number of people that lived in each region of the US, what would be the potential problem?



PET PEEVE #208: GEOGRAPHIC PROFILE MAPS WHICH ARE BASICALLY JUST POPULATION MAPS

Link to image

Source: http://xkcd.com/1138/

4.00 / 4.00
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Question 4

What is an experimental design tool that can be used to address variables that may be confounders at the design phase of an experiment?

Your Answer		Score	Explanation
Using all the data you have access too.			
Stratifying variables.	~	4.00	
Using data from a database.			
Using regression models.			
Total		4.00 / 4.00	

Question 5

What is the reason behind the explosion of interest in big data?

Your Answer		Score	Explanation
We recently discovered ways to use data to answer scientific and business questions.			
 We have better experimental design now than previously. 			
There have been massive improvements in machine learning algorithms.			
The price and difficulty of collecting and storing data has dramatically dropped.	~	4.00	
Total		4.00 / 4.00	