Feedback — Week 3 Quiz

Help

Thank you. Your submission for this quiz was received.

You submitted this quiz on **Sat 22 Nov 2014 10:33 PM IST**. 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.

re Explanation
/ 4.00
/ 4.

Question 2

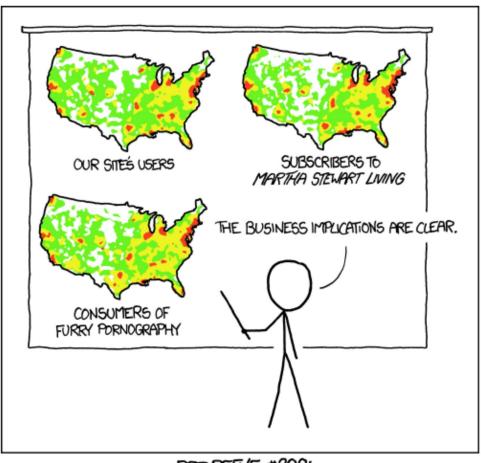
What is the most important thing in Data Science?

Your Answer	Score	Explanation
Knowing Hadoop and Pig.		
Using the right software.		
Hacking skills.		

• The question you are trying to answer.	~	4.00
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/

Your Answer		Score	Explanation
• There would be confounding because the number of people that live in an area is related to both Martha Stewart Living Subscribers and Our Site's Users.	~	4.00	

couldn't be sure whether subscribing to M	artha Steward
causes people to be Users of Our Site or	the other way
d.	
wouldn't be able to estimate the variability	in Martha
art Living Subscribers.	
	4.00 /
	4.00

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
Stratifying variables.	~	4.00	
Using all the data you have access too.			
 Using regression models. 			
Only using non-confounding variables.			
Total		4.00 / 4.00	

Question 5

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

Your Answer		Score	Explanation
There have been massive improvements in machine learning algorithms.			
• The price and difficulty of collecting and storing data has dramatically dropped.	~	4.00	
 Technologies like Hadoop and Map Reduce started the big data era. 			

• We recently discovered ways to use data to and business questions.	answer scientific
Total	4.00 /
	4.00