Feedback — Week 3 Quiz

Help Center

Thank you. Your submission for this quiz was received.

You submitted this quiz on **Tue 17 Mar 2015 3:53 PM PDT**. 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.

	Score	Explanation
~	4.00	
	4.00 / 4.00	
	•	✓ 4.00

Question 2

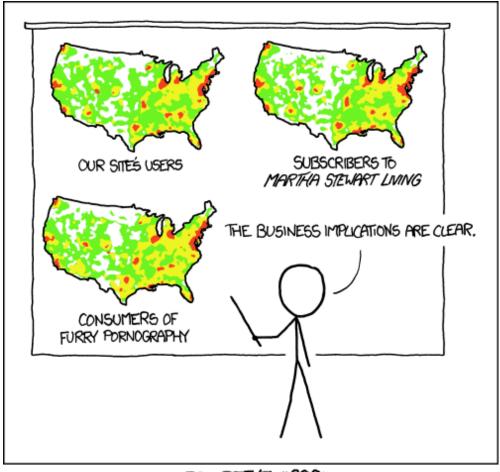
What is the most important thing in Data Science?

Your Answer	Score	Explanation
Working with large data sets.		
Hacking skills.		
Using the right software.		

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	~	4.00	
that live in an area is related to both Martha Stewart Living			

Subscribers and Our Site's Users.

We would be performing inference on the relationship between Martha Stewart Living Subscribers and Our Site's Users.

We couldn't be sure whether subscribing to Martha Steward Living causes people to be Users of Our Site or the other way around.

We wouldn't be able to calculate descriptive statistics on Our Site's Users.

Total

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
Taking a convenience sample.			
Using all the data you have access too.			
O Data cleaning.			
Stratifying variables.	~	4.00	
Total		4.00 / 4.00	

Question 5

analysis techniques.

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

Your Answer	Score	Explanation
 Technologies like Hadoop and Map Reduce started the big data era. 		
There have been massive improvements in statistical		

 We recently discovered ways to use predictions. 	data to make
Total	4.00 /
Total	4.00