

MITx: 14.310x Data Analysis for Social Scientists

**Help** 



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# Threats to the Validity of Your Estimates - Quiz

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## **Question 1**

1/1 point (graded)

We might be concerned with our estimate for the impact of education on test scores from the scholarship experiment, because scholarships could \_\_\_\_\_\_\_. (Select all that apply)

- a. Ease monetary constraints for those who would have gone to school anyways
- b. Give self-confidence
- c. Lead to more education
- d. None of the above



### **Explanation**

Those who did not receive scholarships often scraped together money in order to go to school, which may have lowered their nutrition or increased their stress. Being chosen for a scholarship may have made individuals feel special or competent, which could increase their test scores.

<u>Functions of Random</u> Variable

- Module 5: Moments of a Random Variable,
   Applications to Auctions, & Intro to Regression
- Module 6: Special
   <u>Distributions, the</u>
   <u>Sample Mean, the</u>
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You have used 2 of 2 attempts

✓ Correct (1/1 point)

## Question 2

1.0/1.0 point (graded)

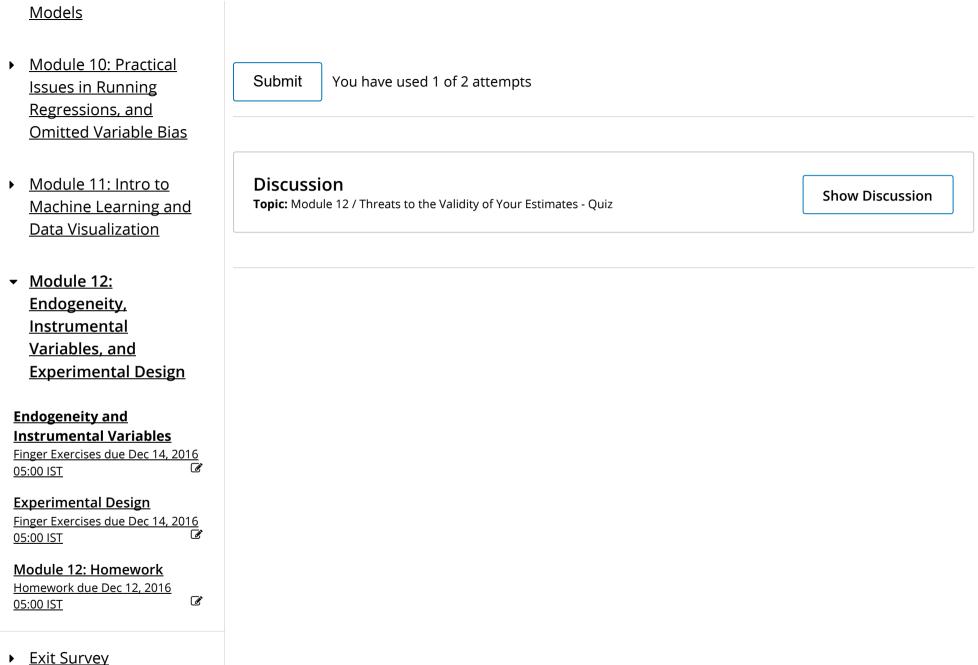
Which of the following is a legitimate way to choose the set of outcomes for which you report your results if you collected data on a lot of outcomes? (select all that apply)

- a. Pre-analysis plan
- b. Report everything
- c. Write down a model ex-post justify which variables
- d. Whatever is significant



### **Explanation**

With a large survey with many variables, you are likely to find some significant results just by chance if you report everything or whatever is significant. By making a pre-analysis plan or an ex-post model, you can promise to focus on a few variables, which means that the chances that you'll find significant results by chance are reduced.



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