

MITx: 14.310x Data Analysis for Social Scientists

Heli



- Module 1: The Basics of R and Introduction to the Course
- ▶ Entrance Survey
- Module 2: Fundamentals of Probability, Random Variables, Distributions, and Joint Distributions
- Module 3: Gathering and Collecting Data, Ethics, and Kernel Density Estimates
- Module 4: Joint,
 Marginal, and
 Conditional
 Distributions &
 Functions of Random
 Variable

Module 9: Single and Multivariate Linear Models > The Multivariate Linear Model > The Multivariate Linear Model - Quiz

The Multivariate Linear Model - Quiz

☐ Bookmark this page

Question 1

1/1 point (graded)

Suppose you are interested in estimating the effect of education on income. Towards that goal, you include a dummy for each level of education, suppose there are 16 years of education (12 school years + 4 college years). You have 15 observations in your data. Is this model estimable?

a. Yes

b. No

Explanation

In this case, you have more regressors than observations, so your model is not estimable.

Submit

You have used 1 of 1 attempt

- Module 5: Moments of a Random Variable,
 Applications to Auctions,
 Intro to Regression
- Module 6: Special
 Distributions, the
 Sample Mean, the
 Central Limit Theorem,
 and Estimation
- Module 7: Assessing and Deriving Estimators -Confidence Intervals, and Hypothesis Testing
- Module 8: Causality,
 Analyzing Randomized
 Experiments, &
 Nonparametric
 Regression
- Module 9: Single and Multivariate Linear Models

The Linear Model
due Nov 28, 2016 05:00 IST

✓ Correct (1/1 point)

Question 2

0.0/1.0 point (graded)

Which of the following is **not** an assumption of the Multivariate Linear Model?

$$lacksquare$$
 a. $m{E}[\epsilon]=m{0}$

- b. The number of observations is greater than the number of regressors.
- \circ c. $Cov(Y,\epsilon)=0$
- d. The errors are uncorrelated across observations.
- e. The regressors are linearly independent. X

Explanation

All of the assumptions stated above are the assumptions Prof. Elison started in class, with the exception of C.

Submit

You have used 2 of 2 attempts

The Multivariate Linear Model due Nov 28, 2016 05:00 IST Module 9: Homework due Nov 21, 2016 05:00 IST	Discussion Topic: Module 9 / The Multivariate Linear Model - Quiz	Show Discussion
 Module 10: Practical Issues in Running Regressions, and Omitted Variable Bias 		
► <u>Exit Survey</u>		

© All Rights Reserved



© 2016 edX Inc. All rights reserved except where noted. EdX, Open edX and the edX and Open EdX logos are registered trademarks or trademarks of edX Inc.

















