

MITx: 14.310x Data Analysis for Social Scientists

Heli

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Outlining the Linear Model - Quiz

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For the following questions, consider the linear model with two random variables (bivariate-style):

$$Y_i = eta_0 + eta_1 X_i + \epsilon_i ext{ for } i = 1, 2, \dots, n$$

Question 1

1/1 point (graded) In this model, n is:

- a. The number of observations
- b. The number of dependent variables
- c. The number of regressors
- d. A measurement of error

Explanation

- Module 5: Moments of a Random Variable,
 Applications to Auctions,
 Intro to Regression
- Module 6: Special
 <u>Distributions, the</u>

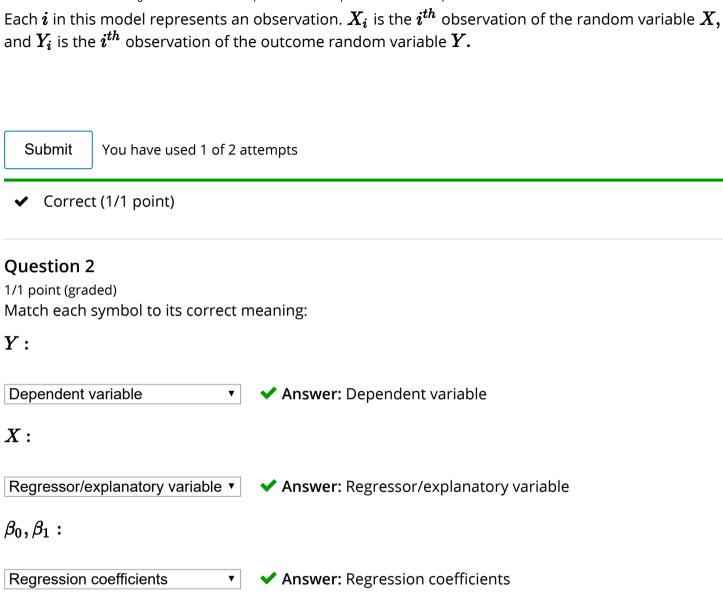
 <u>Sample Mean, the</u>
 <u>Central Limit Theorem,</u>
 and Estimation
- Module 7: Assessing and Deriving Estimators -Confidence Intervals, and Hypothesis Testing
- Module 8: Causality,
 Analyzing Randomized
 Experiments, &
 Nonparametric
 Regression
- Module 9: Single and Multivariate Linear Models

The Linear Model

due Nov 28, 2016 05:00 IST

to Regression

eto Special



✓ Answer: The error

 ϵ :

The error

The Multivariate Linear Model due Nov 28, 2016 05:00 IST Module 9: Homework due Nov 21, 2016 05:00 IST	Explanation Y is the dependent variable that we are considering as a function of the regressor X . Both X and Y are random variables. β_0 and β_1 are the regression coefficients – the parameters to be estimated (generally using linear regression). ϵ is the error caused by any unobserved random variables.
 Module 10: Practical Issues in Running Regressions, and Omitted Variable Bias Exit Survey 	Submit You have used 1 of 2 attempts ✔ Correct (1/1 point)
	Discussion Topic: Module 9 / Outlining the Linear Model - Quiz Show Discussion

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