

MITx: 14.310x Data Analysis for Social Scientists

Helj



- 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 5: Moments of a Random Variable, Applications to Auctions, & Intro to Regression > Expectation, Variance, and an Introduction to Regression > Properties of Variance, Part II - Quiz

Properties of Variance, Part II - Quiz

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Question 1

1/1 point (graded)

True or False: As is the case with expectation, the variance of a sum of random variables is equal to the sum of the variances of the random variables, regardless of whether the random variables are independent or not.

O a. True				
b. False	~			

Explanation

This is false. In the case of expectation, the expectation of a sum of random variables was equal to the sum of the expectations of the variables, even if the random variables are not independent. In the case of variance, however, the same is only true when the random variables are independent.

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 Module 5: Moments of a Random Variable,
 Applications to Auctions, & Intro to Regression

Moments of a Distribution and Auctions

Finger Exercises due Oct 31, 2016 at 05:00 IST

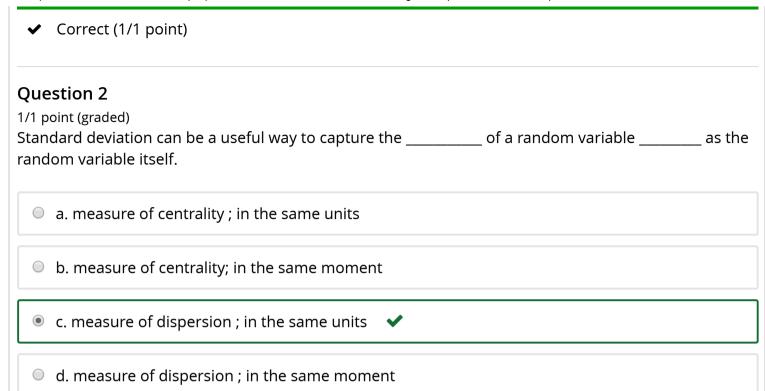
Expectation, Variance, and an Introduction to Regression

Finger Exercises due Oct 31, 2016 at 05:00 IST

Module 5: Homework

Homework due Oct 24, 2016 at 05:00 IST

▶ Exit Survey



Explanation

Standard deviation is calculated as the square root of variance, and is another way of measuring the dispersion of a random variable. Standard deviation can sometimes be a convenient measure of dispersion, since it is in the same units as the random variable.

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Correct (1/1 point)

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