

MITx: 14.310x Data Analysis for Social Scientists

Heli



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- 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,
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Moments of a Distribution - Quiz

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Question 1

1/1 point (graded)

True or False: A PDF is a complete description of the distribution of a random variable.

a. True	~				

b. False

Explanation

True, a PDF does provide a complete description of the distribution of a random variable. In some cases, this can be more information than is necessary to capture or communicate at one point, so it is useful to have "moments" that can summarize a random variable.

Submit

You have used 1 of 1 attempts

Correct (1/1 point)

▼ 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

Question 2 1/1 point (graded) The describes the value for which 50% of the values are greater, and 50% are smaller.
o a. Mean
● b. Median ✔
O c. Mode
o d. Moment
Explanation The median describes the point at which 50% of the values lie above and 50% of the values lie below. In other words, this is the point above and below which the integral of the PDF is equal to $\frac{1}{2}$.
Submit You have used 1 of 2 attempts
✓ Correct (1/1 point)
Question 3 1/1 point (graded)

True or False: Another way of visualizing the median of a distribution is that the median point of the density.	is the balancing					
a. True						
● b. False ✔						
Explanation This is false. The mean , or expectation , can be visualized as the balancing point of the density.						
Submit You have used 1 of 1 attempts						
✓ Correct (1/1 point)						
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