

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 6: Special Distributions, the Sample Mean, the Central Limit Theorem, and Estimation > Human Subjects and Special Distributions > The Normal Distribution: Finding the Area Under the Curve - Quiz

The Normal Distribution: Finding the Area Under the Curve - Quiz

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Question 1

1/1 point (graded)

After receiving your graded midterm for 14.310x you are told that the exam had an approximately normal distribution. You are told by your TA that you scored a standard deviation above average. You scored higher than what percent of students?

- a. 68 %
- oc. 95 %
- od. 50 %

Explanation

Approximately 68% of the data in a normal is within one standard deviation from the normal distribution. If you are exactly one standard deviation above the mean, then you scored higher than 84% of students. If 68% of students scored within one standard deviation of the mean, then 32% scored

- 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

<u>Human Subjects and</u> <u>Special Distributions</u>

Finger Exercises due Nov 07, 2016 at 05:00 IST

The Sample Mean, Central Limit Theorem, and Estimation

Finger Exercises due Nov 07, 2016 at 05:00 IST

Module 6: Homework

<u>Homework due Oct 31, 2016 at 05:00 IST</u>

Exit Survey

either lower than one standard deviation below, or greater than one standard deviation above the mean. So, there are 32/2=16% of students that scored one deviation below the mean, added to the 68% that scored within 1 standard deviation of the mean, meaning that you scored higher than 68+16%=84% of students.

Submit You have used 1 of 2 attempts

Correct (1/1 point)

Discussion

Topic: Module 6 / The Normal Distribution: Finding the Area Under the

Curve - Quiz

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Show Discussion



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