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Comparing Distributions - Quiz

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Question 1

1 point possible (graded)

True or False: The 4th percentile of height in Bihar is the lowest point on the x-axis at which the height of the Bihar histogram equals 0.04.

☐ True

☒ False

Explanation

False. Percentiles cannot be found directly from the height of the histogram. Instead, the 4th percentile is the point on the x-axis for which the cumulative histogram (the integral of the histogram) equals 0.04.

Summarizing and Describing Data

Finger Exercises due Oct 17, 2016 05:00 IST

**Module 3: Homework**

Homework due Oct 10, 2016 05:00 IST



- ▶ Module 4: Joint, Marginal, and Conditional Distributions & Functions of Random Variable
- ▶ 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

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Question 2

1.0 point possible (graded)

The histograms of adult female height in the US and Bihar presented in class show that:

- ☐ a. Women from the US are taller on average than those from Bihar, and the distribution of heights has more dispersion in Bihar.
- ☒ b. Women from the US are taller on average than those from Bihar, and the distribution of heights has more dispersion in the US.
- ☐ c. Women from the US are shorter on average than those from Bihar, and the distribution of heights has more dispersion in Bihar.
- ☐ d. Women from the US are shorter on average than those from Bihar, and the distribution of heights has more dispersion in the US.

Explanation

The plot shown in class, suggests that women in the US are on average taller than women in Bihar. Furthermore, the plot suggests that the distribution of heights in the US is more dispersed.

- ▶ [Module 7: Assessing and Deriving Estimators - Confidence Intervals, and Hypothesis Testing](#)
- ▶ [Module 8: Causality, Analyzing Randomized Experiments, & Nonparametric Regression](#)
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- ▶ [Module 11: Intro to Machine Learning and Data Visualization](#)
- ▶ [Module 12: Endogeneity,](#)

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Question 3

1 point possible (graded)

True or False: We would be able to compare any percentile of the US and Bihar height distribution by plotting a box and whisker plot.

☐ True☒ False

Explanation

False. As discussed in class, a boxplot is a graphical display that shows a measure of location (the median), the spread of the data (the interquartile range), and the presence of outliers. Thus, it does not allow us to precisely compare different percentiles of US and Bihar height distribution per se.

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Topic: Module 3 / Comparing Distributions - Quiz

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