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Plotting Histograms - Quiz

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Question 1

1.0 point possible (graded)

To obtain the density for a histogram, you must divide the number of observations in each “bin” by:

- ☐ a. The number of observations in the previous bin
- ☐ b. 100 in order to obtain a percentage
- ☐ c. The number of observations in the following bin
- ☒ d. The total number of observations

Explanation

To obtain the proportion of cases that fall into each bin, you must divide the the number of cases in that bin by the total number of observations.

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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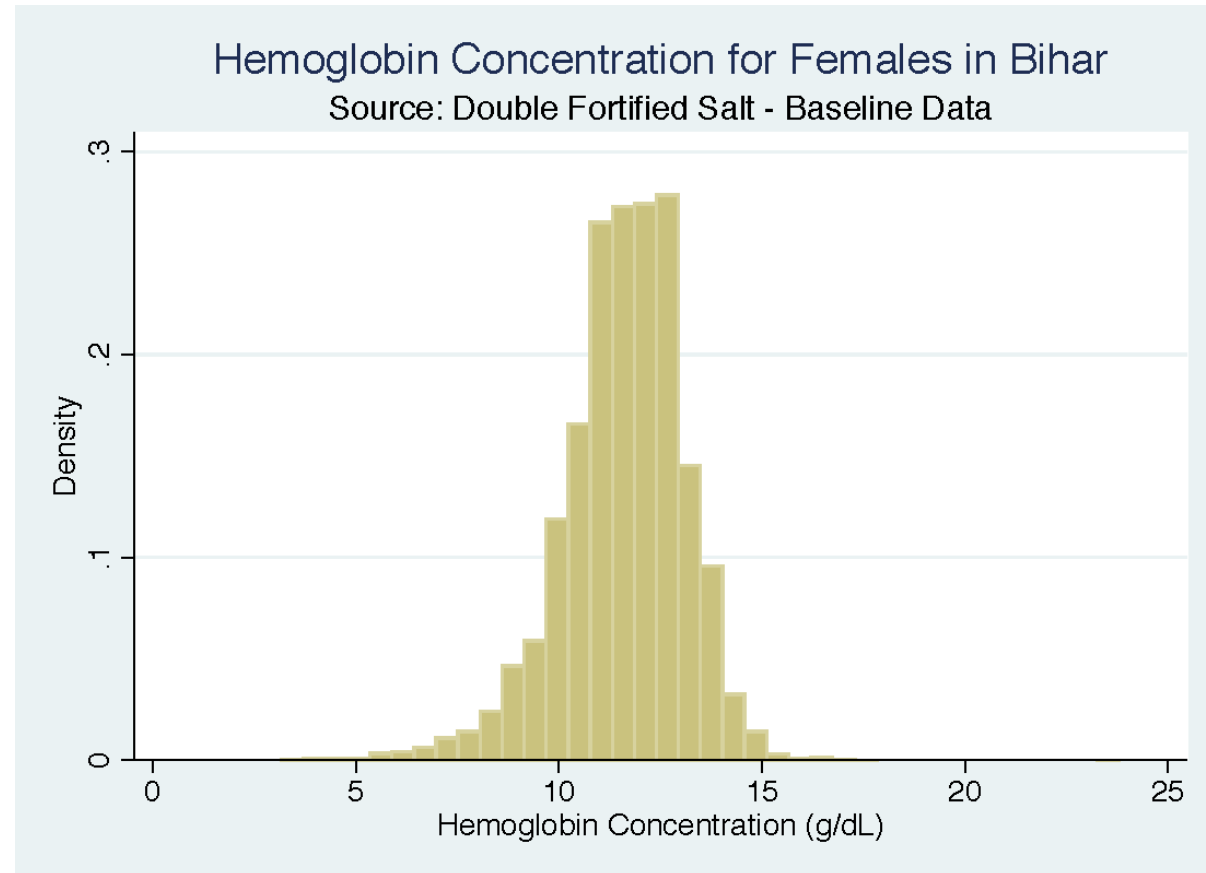
You have used 0 of 2 attempts

Question 2

1 point possible (graded)

The following is histogram of female hemoglobin concentration (an indicator for anemia) from an experiment conducted in Bihar, India. The unit for hemoglobin level is grams per deciliter (g/dL).

- ▶ 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
- ▶ Module 10: Practical Issues in Running Regressions, and Omitted Variable Bias
- ▶ Module 11: Intro to Machine Learning and Data Visualization
- ▶ Module 12: Endogeneity.



According to this histogram, the majority of respondents have hemoglobin levels between:

☐ a. 5 and 8 g/dL

☐ b. 8 and 11 g/dL

Instrumental Variables, and Experimental Design

- ▶ Exit Survey
- ▶ Final Exam

☒ c. 11 and 15 g/dL

☐ d. 15 and 18 g/dL

Explanation

From the histogram, we can see that the density (which is the number of observations within a bin divided by the total number of observations) peaks somewhere between 10 g/dL and 15 g/dL. Therefore, of the choices provided, the greatest proportion of respondents have hemoglobin levels between 11 and 15 g/dL.

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Discussion

Topic: Module 3 / Plotting Histograms - Quiz

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