
Review I: Descriptive Statistics

Biometry 755
Spring 2009

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Question 1

The _____ is a measure of central tendency.

- A. mean
- B. median
- C. standard deviation
- D. interquartile range
- E. range

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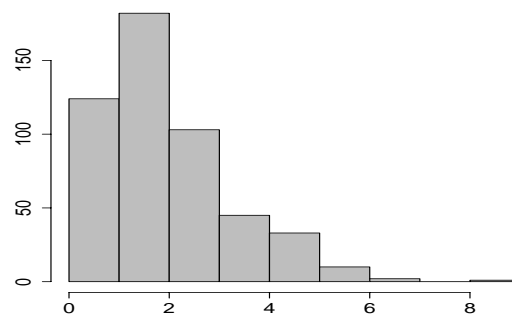
Question 2

The _____ is a measure of dispersion.

- A. mean
- B. median
- C. standard deviation
- D. interquartile range
- E. range

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Question 3

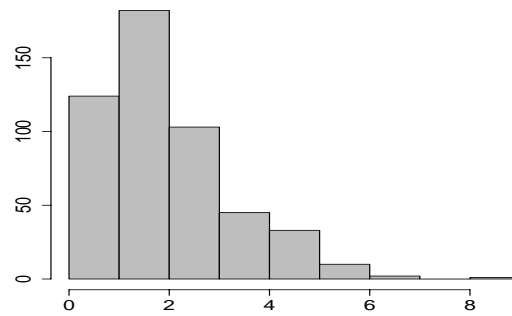


The data's distribution is _____.

- A. left-skewed
- B. right-skewed
- C. non-parametric
- D. A and C
- E. B and C

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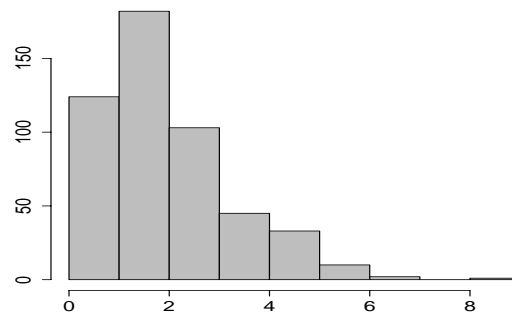
Question 4



An appropriate measure of central tendency is _____.

- A. mean
- B. median
- C. standard deviation
- D. interquartile range
- E. range

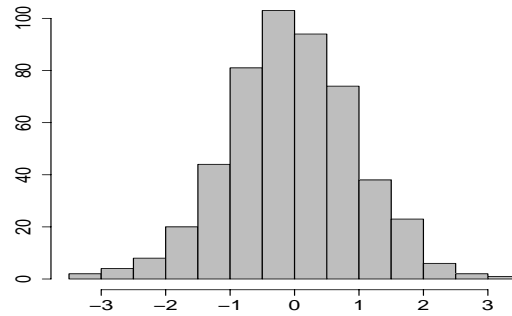
Question 5



An appropriate measure of dispersion is _____.

- A. mean
- B. median
- C. standard deviation
- D. interquartile range
- E. range

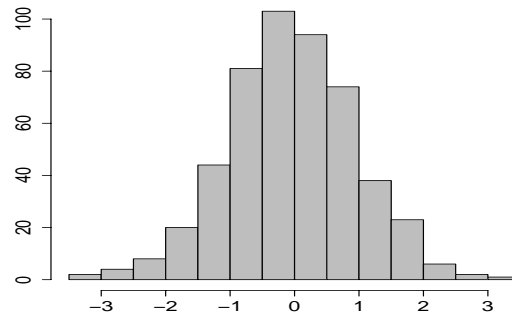
Question 6



The data's distribution is _____.

- A. unimodal
- B. symmetric
- C. approximately normal
- D. A and B
- E. A, B and C

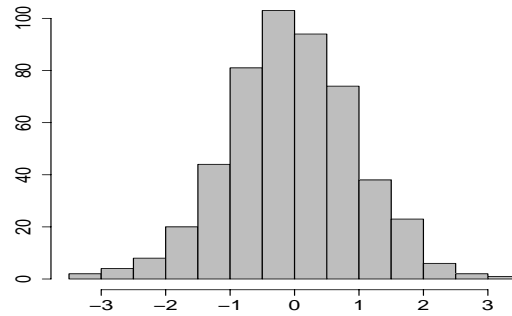
Question 7



An appropriate measure of central tendency is _____.

- A. mean
- B. median
- C. standard deviation
- D. interquartile range
- E. range

Question 8



An appropriate measure of dispersion is _____.

- A. mean
- B. median
- C. standard deviation
- D. interquartile range
- E. range

Question 9

Which of the following is subject to sampling variability?

- A. mean
- B. median
- C. proportion
- D. standard deviation
- E. range

Question 10

Which of the following is always true with respect to a statistic's "standard error"?

- A. The standard error is equal to σ , where σ is the population standard deviation.
- B. The standard error is equal to σ/\sqrt{n} , where σ is the population standard deviation and n is the sample size.
- C. The standard error is approximated by s , where s is the sample standard deviation.
- D. The standard error is approximated by s/\sqrt{n} , where s is the sample standard deviation and n is the sample size.
- E. The standard error is the standard deviation of the statistic's sampling distribution.

Question 11

Which of the following reflects the uncertainty associated with an estimated statistic?

- A. Mean \pm standard deviation
- B. Standard error
- C. Confidence interval
- D. A and B
- E. B and C

Question 12

“Cases were significantly older than control subjects with an average age of 18 years ($SD = 15$ years) versus 12 years ($SD = 10$ years), respectively ($P = 0.001$).”

Which of the following accurately describes the distributions of age for cases and controls?

- A. Both symmetric and unimodal
- B. Both non-parametric
- C. Both left-skewed
- D. Both right-skewed
- E. One skewed and one symmetric and unimodal