Review I:
Descriptive Statistics

Biometry 755

Spring 2009

Question 1

The _____ is a measure of central tendency.
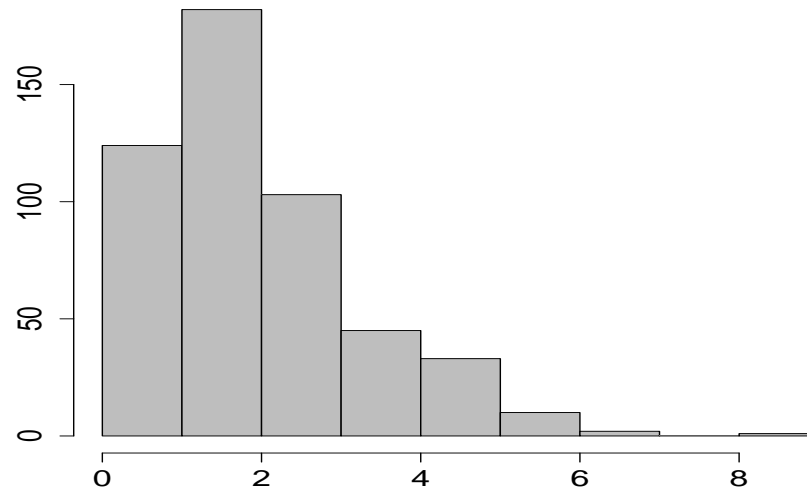
A. mean

B. median

C. standard deviation

D. interquartile range

E. range

Question 2

The ▁▁▁▁▁▁▁▁▁ is a measure of dispersion.

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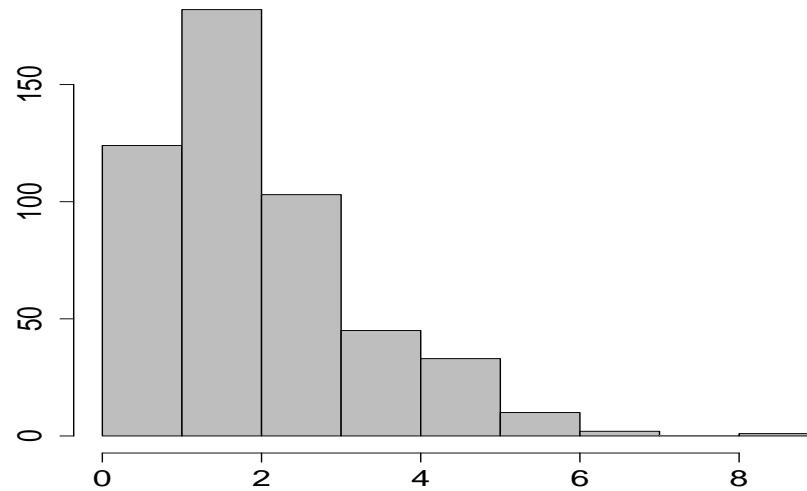- D. interquartile range
- E. range

Question 3

The data's distribution is _____.

  A. left-skewed

  B. right-skewed
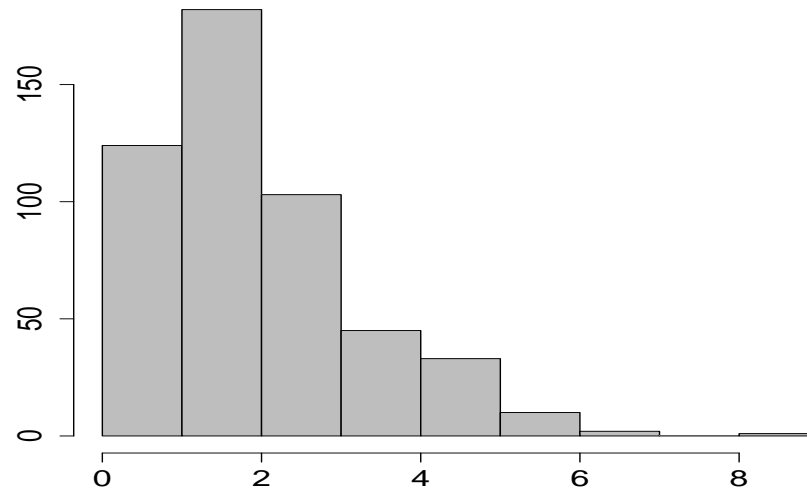
  C. non-parametric

  D. A and C

  E. B and C

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
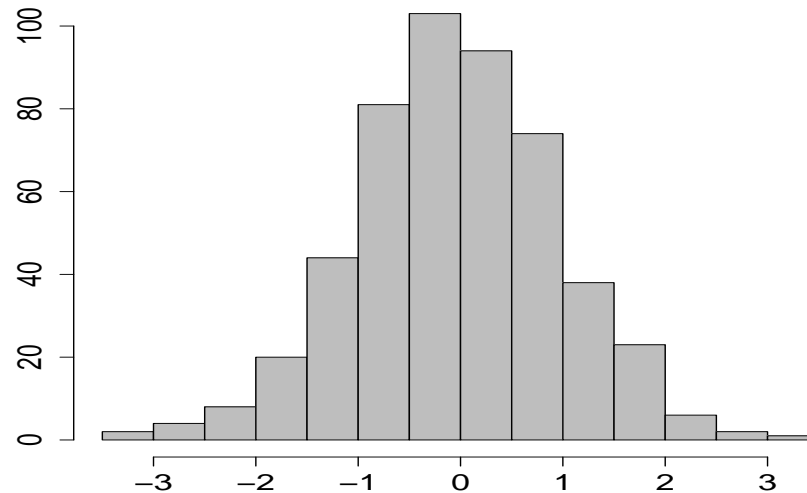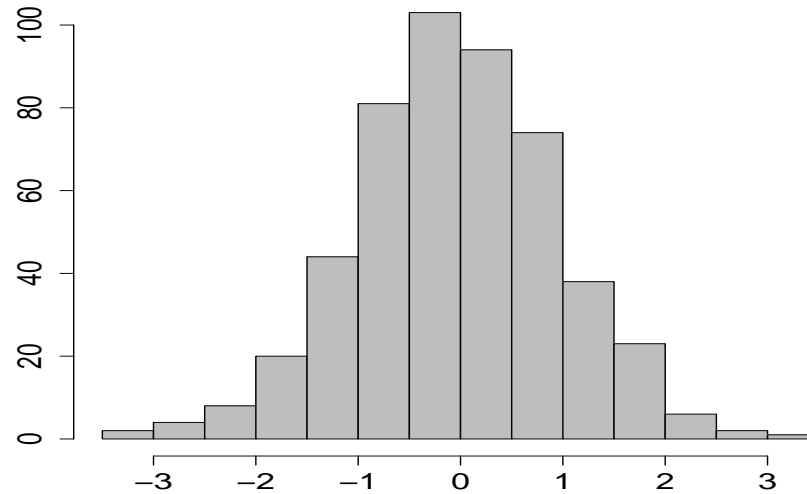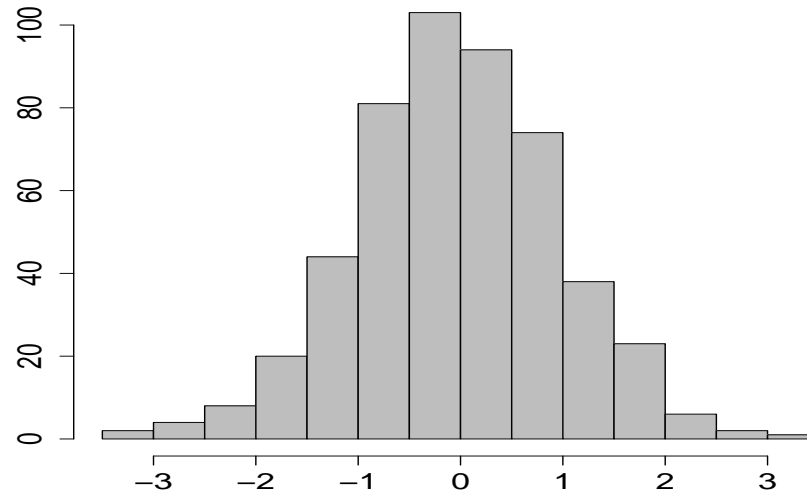
C. standard deviation

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 $\sigma/\sqrt{n}$, 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