

Epidemiology

Lec:9 Descriptive

Statistics

Epidemiology Lecture #9

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4. Chapter: Lec:9 Descriptive Statistics

1. Lec:9 Descriptive Statistics Questions

4.1.1. In a study, racial and ethnic data are collected for each study par...

Author: Janet Forrester

In a study, racial and ethnic data are collected for each study participant. Each study participant is classified into one of the following categories: White, Black, Asian, Native American, Native Hawaiian, Pacific Islander, or other. What type of variable is race/ethnicity?

Please choose only one answer:

- nominal
- ordinal
- discrete
- continuous
- block

Check the answer of this question online at QuizOver.com:

Question: [In a study racial and ethnic data are collected by Dr. Janet Forrester](#)

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4.1.2. In that same study, systolic blood pressure is collected and catego...

Author: Janet Forrester

In that same study, systolic blood pressure is collected and categorized into one of the following groups: < 120, 120?-140, > 140. What type of data are these?

Please choose only one answer:

- nominal
- ordinal
- discrete
- continuous
- block

Check the answer of this question online at QuizOver.com:

Question: [In that same study systolic blood pressure by Dr. Janet Forrester](#)

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4.1.3. What would be the best way to display the association between two c...

Author: Janet Forrester

What would be the best way to display the association between two continuous variables, BMI and age?

Please choose only one answer:

- boxplot
- scatterplot
- pie chart
- histogram
- bar chart

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [What would be the best way to display the by Dr. Janet Forrester](#)

Flashcards:

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4.1.4. Which of the following statements is CORRECT concerning measures of...

Author: Janet Forrester

Which of the following statements is CORRECT concerning measures of central tendency and variability?

Please choose only one answer:

- Medians are not robust to outliers, while means are robust to outliers.
- Means and medians can never be negative.
- It is common to see the variance of a continuous variable displayed in journal articles along with means, since the variance is a measure of dispersion in the original units measured.
- The median of the following data: 3, 5, 10, 11; is 7.5.
- The interquartile range is the difference between the 50th and 25th percentiles.

Check the answer of this question online at QuizOver.com:

Question: [Which of the following statements is CORRECT by Dr. Janet Forrester](#)

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Interactive Question:

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4.1.5. If the mean number of doughnut holes consumed by each customer is 6...

Author: Janet Forrester

If the mean number of doughnut holes consumed by each customer is 6.5, with a standard deviation of 2.5, and if we assume that the number of doughnut holes eaten follows a normal distribution, we would expect 68% of customers to have eaten how many doughnut holes?

Please choose only one answer:

- 4 to 9
- 2.5 to 11.5
- 1 to 14
- 6.5 to 15
- Cannot be determined from the information given. You need to know the sample size.

Check the answer of this question online at QuizOver.com:

Question: [If the mean number of doughnut holes consumed by Dr. Janet Forrester](#)

Flashcards:

<http://www.quizover.com/flashcards/if-the-mean-number-of-doughnut-holes-consumed-by-dr-janet-forrester?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/if-the-mean-number-of-doughnut-holes-consumed-by-dr-janet-forrester?pdf=1505>

4.1.6. A red-headed 6-year-old scamp named Billy measures 46 inches at ...

Author: Janet Forrester

The following scenario is applied to questions 6 and 7:

You are a pediatrician who only sees patients who are 6 years old and have red hair. The distribution of the height of 6 year olds is approximately normal with a mean of 40 inches and a standard deviation of 3 inches.

What percentile is Billy compared to all other 6 year olds?

A red-headed 6-year-old scamp named Billy measures 46 inches at his latest check-up.

- Billy is 2 standard deviations above the mean. Therefore, according to the distribution of a theoretical normal distribution, he is at the 97.5th percentile. In other words, 97.5% of all 6-year olds would have heights lower than Billy's.

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [A red-headed 6-year-old scamp named Billy The following scenario](#)

Flashcards:

<http://www.quizover.com/flashcards/a-red-headed-6-year-old-scamp-named-billy-the-following-scenario?pdf=1505>

Interactive Question:

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4.1.7. Assuming you see 100 patients during the week of October 4th, how m...

Author: Janet Forrester

The following scenario is applied to questions 6 and 7:

You are a pediatrician who only sees patients who are 6 years old and have red hair. The distribution of the height of 6 year olds is approximately normal with a mean of 40 inches and a standard deviation of 3 inches.

expected to have heights between 37 and 43 inches?

Assuming you see 100 patients during the week of October 4th, how many would be

- 37 and 43 are one standard deviation above and below the mean of 40. By the 68%-95%-99 rule described in the notes, we would expect about 68%, or 68 out of 100 patients to fall within one standard deviation unit of the mean.

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Assuming you see 100 patients during the following scenario is applied](#)

Flashcards:

<http://www.quizover.com/flashcards/assuming-you-see-100-patients-during-the-following-scenario-is-applied?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/assuming-you-see-100-patients-during-the-following-scenario-is-applied?pdf=1505>

4.1.8. What measure would be the most appropriate to measure the central t...

Author: Janet Forrester

What measure would be the most appropriate to measure the central tendency of a distribution that has a lot of outliers?

- The median would be the ideal measure of central tendency, since it is robust to outliers.

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [What measure would be the most appropriate by Dr. Janet Forrester](http://www.quizover.com/question/what-measure-would-be-the-most-appropriate-by-dr-janet-forrester?pdf=1505)

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