

0.5

Question 1 of 20: / **0.5 Points**

Can we predict blood pressure based on a person's age? A random sample of 500 people was selected to determine the relationship between the two variables.

What is the simplest type of statistical analysis that would be appropriate to use to analyze this data?

- A. One sample t test
- B. Matched Pairs t test
- C. Two sample t test
- D. ANOVA
- E. Simple Linear Regression
- F. Multiple Regression
- G. Contingency Table
- H. Logistic Regression
- I. Kruskal-Wallis
- J. Wilcoxon Rank-Sum Test
- K. Wilcoxon Sign-Rank Test
- L. None

Answer Key: E

Comment:



Attachments

No Attachment(s) yet

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Question 2 of 20: / **0.5 Points**

Do blood pressure levels change after listening to soothing music? A random sample of 500 people was selected to determine the change in blood pressure after listening to 5 minutes of soothing, instrumental music.

What is the simplest type of statistical analysis that would be appropriate to use to analyze this data?

- A. One sample t test
- B. Matched Pairs t test
- C. Two sample t test
- D. ANOVA
- E. Simple Linear Regression
- F. Multiple Regression
- G. Contingency Table
- H. Logistic Regression
- I. Kruskal-Wallis
- J. Wilcoxon Rank-Sum Test
- K. Wilcoxon Sign-Rank Test
- L. None

Answer Key: B

Comment:

Attachments

No Attachment(s) yet

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Question 3 of 20: / **0.5 Points**

Does happiness depend on race? 500 random people were asked to answer True/False to the following question: "I consider myself to be quite happy or very happy most of the time". Their answer to the question, and the respondent's race, were tabulated.

What is the simplest type of statistical analysis that would be appropriate to use to analyze this data?

- A. One sample t test
- B. Matched Pairs t test
- C. Two sample t test
- D. ANOVA
- E. Simple Linear Regression
- F. Multiple Regression
- G. Contingency Table
- H. Logistic Regression
- I. Kruskal-Wallis
- J. Wilcoxon Rank-Sum Test
- K. Wilcoxon Sign-Rank Test
- L. None

Answer Key: G

Comment:

Attachments

No Attachment(s) yet

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Question 4 of 20: / 0.5 Points

Is there a difference in salary for different racial groups? A study compares the average salary for Blacks, Whites and Hispanics, based on random samples of 100 people in each racial group.

What is the simplest type of statistical analysis that would be appropriate to use to analyze this data?

- A. One sample t test
- B. Matched Pairs t test
- C. Two sample t test