Assignment 5

1. What measure of fit is best for the car park problem?
   a. MSL
   b. Selection
   c. Accuracy

2. Test the hypothesis of no correlation on 
   a. 
   b. 
   c. 

3. Given that the correlation coefficient is 0.9 and the sum of squares is 100, what is the standard error of the estimate if the sample size is 100?

4. The regression equation is y = 3 + 2x. If x is 10, what is y?

5. Multiple choice: the correct answer is:
   a. 
   b. 
   c. 
   d. 

6. A hypothesis test is performed on the data and the result is statistically significant at the 0.05 level. What can be concluded?
   a. The null hypothesis cannot be rejected.
   b. The null hypothesis is rejected.
   c. The results are due to chance.
   d. There is no clear conclusion.

7. What is the purpose of hypothesis testing?

8. A correlation coefficient of 0.9 indicates a high degree of linear relationship. Which of the following can be concluded?
   a. The two variables are perfectly correlated.
   b. There is no relationship between the variables.
   c. The two variables are inversely related.
   d. The relationship cannot be determined.

9. What is the significance level of a test that has a p-value of 0.03?

10. Writing hypotheses, the null hypothesis is: the correlation coefficient is zero. The alternative hypothesis is: the correlation coefficient is not zero. If the calculated t-value is 2.5 and the critical t-value is 2.0, what can be concluded?
   a. Accept the null hypothesis.
   b. Accept the alternative hypothesis.
   c. The correlation coefficient is not significant.
   d. There is no clear conclusion.

11. The regression equation is y = 3 + 2x. If x is 20, what is y?

12. A multiple choice question is:
   a. 
   b. 
   c. 
   d. 

Multiple choice: the correct answer is:
   a. 
   b. 
   c. 
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19. A multiple choice question is:
   a. 
   b. 
   c. 
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Multiple choice: the correct answer is:
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