Week 5 Assignment 5

1. Choose the best method to assess the outcome of a clinical trial: a) descriptive statistics b) inferential statistics c) both d) neither

2. Which of the following is the correct interpretation of a p-value of 0.05 in a hypothesis test? a) There is 95% evidence against the null hypothesis b) There is 5% evidence for the null hypothesis c) There is 95% evidence for the null hypothesis d) There is 5% evidence against the null hypothesis

3. A study found that the mean weight of newborns was 3.2 kg with a standard deviation of 0.5 kg. Calculate the 95% confidence interval for the mean weight.

4. A coin is flipped 100 times and lands heads 55 times. Calculate the 95% confidence interval for the proportion of heads.

5. A survey found that 70% of respondents support a new tax. Calculate the 95% confidence interval for the proportion of respondents who support the tax.

6. A study found that the mean height of a population was 170 cm with a standard deviation of 10 cm. Calculate the 95% confidence interval for the mean height.

7. A study found that the mean blood pressure of a population was 120 mmHg with a standard deviation of 15 mmHg. Calculate the 95% confidence interval for the mean blood pressure.

8. A study found that the mean income of a population was $50,000 with a standard deviation of $10,000. Calculate the 95% confidence interval for the mean income.

9. A study found that the mean age of a population was 40 years with a standard deviation of 10 years. Calculate the 95% confidence interval for the mean age.

10. A study found that the mean score on a test was 75 with a standard deviation of 10. Calculate the 95% confidence interval for the mean score.

11. A study found that the mean number of hours slept per night was 7 hours with a standard deviation of 1 hour. Calculate the 95% confidence interval for the mean number of hours slept.

12. A study found that the mean number of hours worked per week was 40 hours with a standard deviation of 5 hours. Calculate the 95% confidence interval for the mean number of hours worked.

13. A study found that the mean number of books read per year was 10 books with a standard deviation of 2 books. Calculate the 95% confidence interval for the mean number of books read.

14. A study found that the mean number of minutes spent on social media per day was 60 minutes with a standard deviation of 10 minutes. Calculate the 95% confidence interval for the mean number of minutes spent on social media.

15. A study found that the mean number of hours spent on homework per week was 10 hours with a standard deviation of 2 hours. Calculate the 95% confidence interval for the mean number of hours spent on homework.

16. A study found that the mean number of hours spent on exercise per week was 3 hours with a standard deviation of 1 hour. Calculate the 95% confidence interval for the mean number of hours spent on exercise.

17. A study found that the mean number of hours spent on entertainment per week was 20 hours with a standard deviation of 5 hours. Calculate the 95% confidence interval for the mean number of hours spent on entertainment.

18. A study found that the mean number of hours spent on sleep per week was 140 hours with a standard deviation of 10 hours. Calculate the 95% confidence interval for the mean number of hours spent on sleep.

19. A study found that the mean number of hours spent on schoolwork per week was 50 hours with a standard deviation of 10 hours. Calculate the 95% confidence interval for the mean number of hours spent on schoolwork.

20. A study found that the mean number of hours spent on work per week was 40 hours with a standard deviation of 5 hours. Calculate the 95% confidence interval for the mean number of hours spent on work.