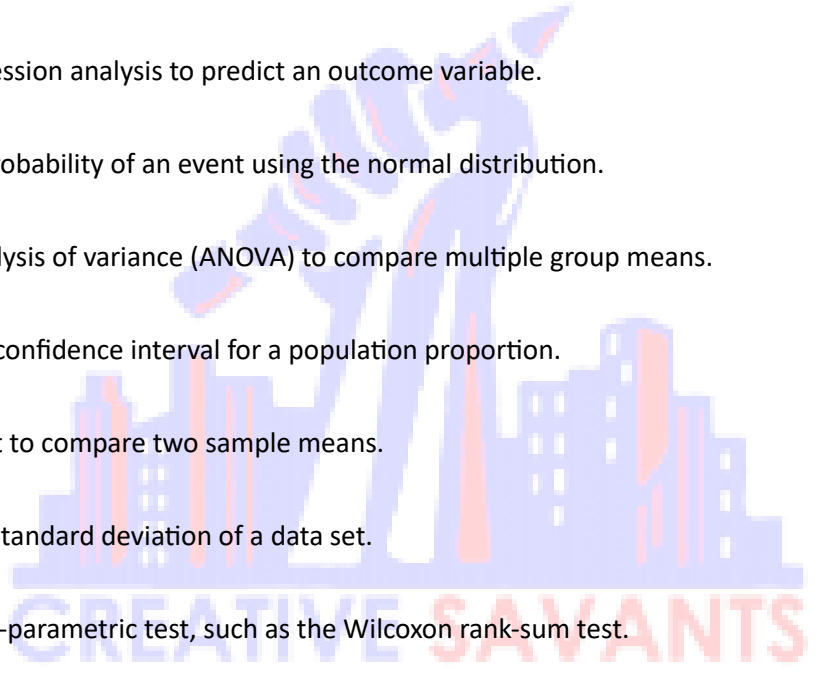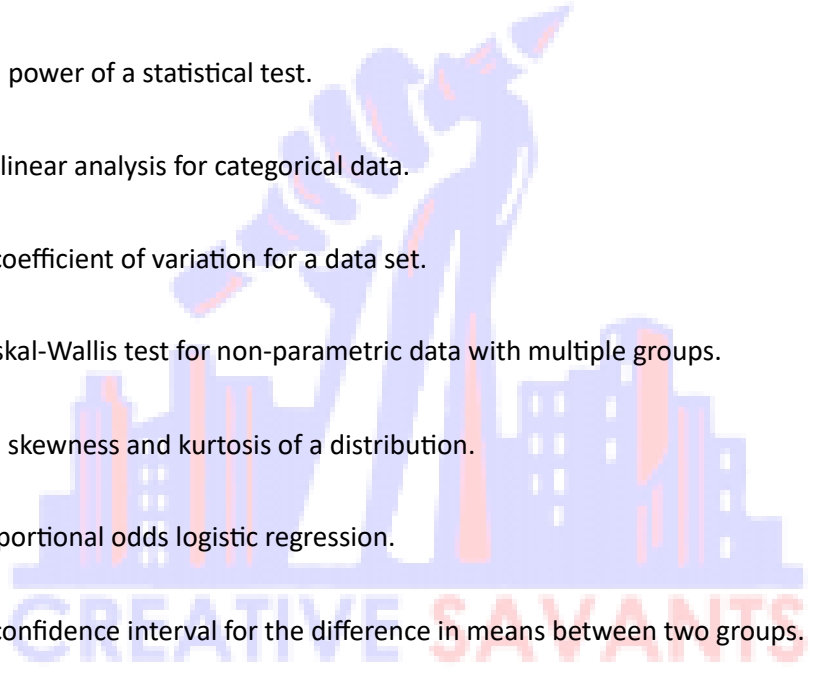# MyStatLab

1. Calculate the mean, median, and mode of a data set.

2. Conduct a hypothesis test to compare two population means.

3. Perform a chi-square test of independence.

4. Determine the correlation coefficient between two variables.

5. Conduct a regression analysis to predict an outcome variable.

6. Calculate the probability of an event using the normal distribution.

7. Perform an analysis of variance (ANOVA) to compare multiple group means.

8. Determine the confidence interval for a population proportion.

9. Conduct a t-test to compare two sample means.

10. Calculate the standard deviation of a data set.

11. Perform a non-parametric test, such as the Wilcoxon rank-sum test.

12. Determine the coefficient of determination (R-squared) for a regression model.

13. Conduct a one-sample hypothesis test for a population mean.

14. Calculate the odds ratio in a binary logistic regression.

15. Perform a paired t-test to compare two related samples.

16. Determine the sample size needed for a desired level of confidence.

17. Conduct a two-way analysis of variance (ANOVA) with interaction.

18. Calculate the p-value for a given test statistic.

19. Perform a goodness-of-fit test for a categorical distribution.

20. Determine the effect size for a statistical test.

21. Conduct a repeated measures analysis of variance (ANOVA).

22. Calculate the z-score for a given value in a normal distribution.

23. Perform a Mann-Whitney U test for non-parametric data.

24. Determine the power of a statistical test.

25. Conduct a log-linear analysis for categorical data.

26. Calculate the coefficient of variation for a data set.

27. Perform a Kruskal-Wallis test for non-parametric data with multiple groups.

28. Determine the skewness and kurtosis of a distribution.

29. Conduct a proportional odds logistic regression.

30. Calculate the confidence interval for the difference in means between two groups.