Statistics Worksheet 6

1. D
2. A
3. A
4. C
5. C
6. A
7. C
8. B
9. A
10.

Boxplot	Histogram
Boxplot is in IQR which middle is 50% of data with median represented by line and show maximum and minimum value.	Histogram shows the frequency of continuous data and allow to visually explore probability distribution
Boxplot use in find out Outlier in data	Histogram use in visualize the distribution of data.
Visualize central tendency of data	Shows where most of data exist
Boxplot is easiest way to find out outliers in data	Helps to find unusual data and outliers
Boxplot tell the skewed data.	identify the spread of the data

11.
12. Performing hypothesis testing to determine statistical significance. Formulate null hypothesis and alternative hypothesis. the calculate the p-value. compare p-value to the significance level. If p-value is less than significance or alpha then reject the null hypotheises.
13. Example:
    1. Long tailed distribution
    2. Power law distribution (Best Selling product vs Others)
    3. Categorical data
    4. Exponential distribution(Lifetime of electronic components)

14. Median is better than mean when data is not distribute normally or skewed data with outliers.
    Example: salary of company employees, bank balance of people etc.