

Statistics-Worksheet6

- 1) D
- 2) A
- 3) A
- 4) C
- 5) D
- 6) A
- 7) C
- 8) C
- 9) B

10) Both histograms and boxplots speak about distribution but boxplots. Histograms gives shapes but boxplot plots quantiles side by side.

12)

- 1. Create a null hypothesis.
- 2. Create an alternative hypothesis.
- 3. Determine the significance level.
- 4. Decide on the type of test you'll use.
- 5. Perform a power analysis to find out your sample size.
- 6. Calculate the standard deviation.
- 7. Use the standard error formula.
- 8. Determine the t-score.
- 9. Find the degrees of freedom.
- 10. Use a t-table.

13)

- 1. Weibull distribution, found with life data such as survival times of a product
- 2. Log-normal distribution, found with length data such as heights
- 3. Largest-extreme-value distribution, found with data such as the longest down-time each day

14) Median is the best measure of central tendency when we have skewed data and ordinal data.

15) Probability of something favourable outcome happening.