STATISTICS WORKSHEET- 6

1. Which of the following can be considered as random variable?

Ans. The outcome of flip of a coin

2. Which of the following random variable that take on only a countable number of possibilities?

Ans. Discrete

3. Which of the following function is associated with a continuous random variable?

Ans. Pdf

4. The expected value or of a random variable is the center of its distribution?

Ans. Mean

5. Which of the following of a random variable is not a measure of spread?

Ans. Variance

6. The _____ of the Chi-squared distribution is twice the degrees of freedom?

Ans. Variance

7. The beta distribution is the default prior for parameters between ?

Ans. 0 and 1

8. Which of the following tool is used for constructing confidence intervals and calculating standard errors for difficult statistics?

Ans. Bootstrap

9. Data that summarize all observations in a category are called data?

Ans. Summarized

10. What is the difference between a boxplot and histogram?

Ans. Histogram that's show the bar values in visualization.

Box plot gives you the complete information of the outliers and the max min and 75^{th} percentile complete statistics description.

11. How to select metrics?

Ans. Type of data and the arrays by choosing algorithm will predict some values by using the common sense and logical thinking according to the model and the algorithm.

12.How do you assess the statistical significance of an insight?

Ans. By checking the hypothese and the statistical significant level to determine the significance one-tailed or two-tailed test.

12. Give examples of data that doesnot have a Gaussian distribution, nor log-normal?
13. Ans. Exponential distribution do not have a log no normal distribution or gaussian distribution.

Ans. Yes in some cases we have to use and the median is better than mean when the skewness present inside the data that time we can replace the values with median.

14. What is the Likelihood?

Ans. Likelihood means probability that a particular outcome is observed when the true value of parameter is equivalent.