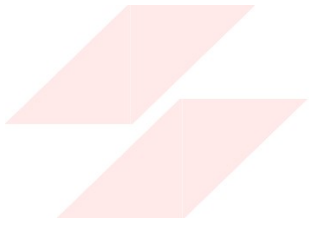


## STATISTICS WORKSHEET-1

1. Bernoulli random variables take (only) the values 1 and 0.  
Ans: True
2. Which of the following theorem states that the distribution of averages of iid variables, properly normalized, becomes that of a standard normal as the sample size increases?  
Ans: Central Limit Theorem
3. Which of the following is incorrect with respect to use of Poisson distribution?  
Ans: Modeling bounded count data
4. Point out the correct statement.  
Ans: All of the mentioned
5. \_\_\_\_\_ random variables are used to model rates.  
Ans: Poisson
6. Usually replacing the standard error by its estimated value does change the CLT.  
Ans: False
7. Which of the following testing is concerned with making decisions using data?  
Ans: Hypothesis
8. Normalized data are centered at \_\_\_\_\_ and have units equal to standard deviations of the original data.  
Ans: 0
9. Which of the following statement is incorrect with respect to outliers?  
Ans: Outliers cannot conform to the regression relationship
10. What do you understand by the term Normal Distribution?  
Ans: When the histogram of data show a bell shape curve, then its call data is normally distributed.
11. How do you handle missing data? What imputation techniques do you recommend?  
Ans: Using advanced imputation techniques.
  1. Simple imputation
  2. KNN imputation
  3. Iterative imputation
12. What is A/B testing?  
Ans: It is a split testing, in which some data may be test in A version and some data in B version.
13. Is mean imputation of missing data acceptable practice?  
Ans: yes but in some case.
14. What is linear regression in statistics?  
Ans:  $y = c + m_0x_0 + m_1x_1 + m_2x_2 + \dots$
15. What are the various branches of statistics?  
Ans: Descriptive and Inferential



# FLIP ROBO