STATISTICS WORKSHEET-1 Q1 to Q9 have only one correct answer. Choose the correct option to answer your question. 1. Bernoulli random variables take (only) the values 1 and 0. a) True b) False
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?
 a) Central Limit Theorem b) Central Mean Theorem c) Centroid Limit Theorem d) All of the mentioned
3. Which of the following is incorrect with respect to use of Poisson distribution?
 a) Modeling event/time data b) Modeling bounded count data c) Modeling contingency tables d) All of the mentioned
 4. Point out the correct statement. a) The exponent of a normally distributed random variables follows what is called the log- normal distribution b) Sums of normally distributed random variables are again normally distributed even if the variables are dependent c) The square of a standard normal random variable follows what is called chi-squared distribution d) All of the mentioned
 5 random variables are used to model rates. a) Empirical b) Binomial c) Poisson d) All of the mentioned
6. 10. Usually replacing the standard error by its estimated value does change the CLT.a) Trueb) False
 7. 1. Which of the following testing is concerned with making decisions using data? a) Probability b) Hypothesis c) Causal d) None of the mentioned
8. 4. Normalized data are centered atand have units equal to standard deviations of the original data. a) 0

- 9. Which of the following statement is incorrect with respect to outliers?
- a) Outliers can have varying degrees of influence
- b) Outliers can be the result of spurious or real processes
- $c) \ \textbf{Outliers cannot conform to the regression relationship} \\$
- d) None of the mentioned

b) 5c) 1d) 10