

Answer File - Fliprobo || STATISTICS WORKSHEET-5 || Task 2B

Ans-1. D. Extended Frequencies

Ans-2. C. Frequencies

Ans-3. C. By the property of Chi-Square distribution, the mean corresponds to the number of degrees of freedom.

Degrees of freedom = 6.

Hence mean = 6.

Ans-4. B. Chi-squared distribution is used to test the hypothesis. The value of X^2 decides whether the hypothesis is accepted or not.

Ans-5 C. The F distribution is a univariate continuous distribution often used in hypothesis testing.

Ans-6. B. Hypothesis is a statement made about a population in general. It is then tested and correspondingly accepted if True and rejected if False.

Ans-7. A. Null Hypothesis

if the the assumed hypothesis is tested for rejection considering it to be true is called a Null Hypothesis.

Ans-8. A. In two two-tailed tests, the Critical region is evenly distributed. One region contains the area where the Null Hypothesis is accepted and another includes the area where it is rejected.

Ans-9. B. The alternative hypothesis is also known as the directional hypothesis or research hypothesis.

Ans-10. A. A binomial distribution's expected value, or mean, is calculated by multiplying the number of trials (n) by the probability of successes (p), or $n \cdot p$.