

# Statistics Practice Test Questions and Answers

## 1. What is the law of large numbers?

- A) As sample size increases, the sample mean converges to the population mean
- B) Larger samples always produce normal distributions
- C) Population variance decreases as sample size grows
- D) Larger samples have smaller standard deviations

## 2. What is logistic regression used for?

- A) Predicting a binary or categorical outcome variable
- B) Predicting a continuous outcome variable
- C) Comparing means of two groups
- D) Testing the normality of a distribution

## 3. What does a frequency polygon display?

- A) Distribution shape using connected midpoint frequencies
- B) Cumulative relative frequency
- C) Relationship between two variables
- D) Proportion of each category

## 4. What does statistical power represent?

- A) The probability of correctly rejecting a false null hypothesis
- B) The probability of making a Type I error
- C) The width of a confidence interval
- D) The effect size of a study

**Answers: 1-A 2-A 3-A 4-A**

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