

Distributions

Lecture 6

I. Objectives

At the end of this series of lectures you should be able to:

- A. Define terms.
- B. Describe and distinguish between Poisson, binomial, and normal distributions.
- C. Describe in qualitative and quantitative terms a normal distribution.
- D. Describe the different types of deviations from normality (skew and kurtosis).
- E. Calculate proportions of a normal curve using Z-scores.
- F. Explain the central limit theorem.
- G. Interpret the standard error of a sample and calculate it.

II. Key Concepts and Terms

a priori
Bell-curve
Bell-shaped distribution
Binomial distribution
Distribution
Eurykurtic
Independent
Kurtosis
Leptokurtic
Mean
Normal distribution
Platykurtic
Poisson distribution
Standard deviation
Standard error
Standard normal distribution
Symmetry
Z-score