

Chapters 6-9 Concepts

Chapter 6

6.1 – Discrete Random Variables

- Definition
- Properties
- Expected Value

6.2 – Binomial Distribution

- Binomial Experiments
- Probabilities
- Mean, Standard Deviation

Chapter 7

7.1 – Normal Distribution

- Probability as area
- Properties
- Standard Normal

7.2, 7.3 – Areas under normal curves

7.4 – Assessing Normality

- Normal Probability Plots

7.5 – Normal Approximation to the Binomial

- Mean, standard deviation
- Continuity Correction ($\pm 1/2$)

Chapter 8

8.1 – Sampling Distribution of the Mean

- For normal populations
- For large n (Central Limit Theorem)

8.2 – Sampling Distribution of the Sample Proportion

- Mean, standard deviation
- Conditions

Chapter 9

9.1 – Confidence Intervals

- Z-intervals (know σ)

9.2 – Confidence Intervals

- t -intervals (don't know σ)