

## CHAPTER OVERVIEW

### 3: Probability Topics

Probability theory is concerned with probability, the analysis of random phenomena. The central objects of probability theory are random variables, stochastic processes, and events: mathematical abstractions of non-deterministic events or measured quantities that may either be single occurrences or evolve over time in an apparently random fashion.

- [3.1: Introduction](#)
- [3.2: Terminology](#)
- [3.3: Independent and Mutually Exclusive Events](#)
- [3.4: Two Basic Rules of Probability](#)
- [3.5: Contingency Tables and Probability Trees](#)
- [3.6: Venn Diagrams](#)
- [3.7: Key Terms](#)
- [3.8: Chapter Review](#)
- [3.9: Formula Review](#)
- [3.10: Practice](#)
- [3.11: Bringing It Together- Practice](#)
- [3.12: Homework](#)
- [3.13: Bringing It Together- Homework](#)
- [3.14: References](#)
- [3.15: Solutions](#)

---

This page titled [3: Probability Topics](#) is shared under a [CC BY 4.0](#) license and was authored, remixed, and/or curated by [OpenStax](#) via [source content](#) that was edited to the style and standards of the LibreTexts platform.