

The Normal Distribution

Specific Expectations	Section
Interpret one-variable statistics to describe the characteristics of a data set.	8.1, 8.2, 8.3
Organize and summarize data from secondary sources.	8.1, 8.2, 8.3
Identify situations that give rise to common distributions.	8.1, 8.2, 8.4, 8.5, 8.6
Interpret probability statements, including statements about odds, from a variety of sources.	8.1, 8.2, 8.3, 8.4, 8.5, 8.6
Assess the validity of some simulation results by comparing them with the theoretical probabilities, using the probability concepts developed in the course.	8.2
Describe the position of individual observations within a data set, using z-scores and percentiles.	8.2
Demonstrate an understanding of the properties of the normal distribution.	8.2, 8.3, 8.4, 8.5, 8.6
Make probability statements about normal distributions.	8.2, 8.3, 8.4, 8.5, 8.6
Illustrate sampling bias and variability by comparing the characteristics of a known population with the characteristics of samples taken repeatedly from that population, using different sampling techniques.	8.3
Assess the validity of conclusions made on the basis of statistical studies.	8.3, 8.5, 8.6
Determine probabilities, using the binomial distribution.	8.4, 8.5, 8.6