

Chapter 1: Sampling Methods Standards

CONTENT STANDARDS:

- To objectively analyze a published poll and its results.
- To explain the difference between “population” and “sample”.
- To identify bias in sampling methods.
- To differentiate between a variety of sampling methods.

PROCESS STANDARDS:

- Students will evaluate a situation for relevant information.*
- Students will share their opinions with others and consider the opinions of others.*

Chapter 2: The Normal Distribution Standards

CONTENT STANDARDS:

- To describe the properties of the normal distribution.
- To use the normal distribution to calculate probabilities as well as statistics associated with intervals within the normal distribution.

PROCESS STANDARDS:

- Students will apply course content to their own life.*
- Students will use problem solving techniques to decide how to approach a scenario.*
- Students will demonstrate effective communication skills when presenting information in written form.*

Chapter 3: The Binomial Distribution Standards

CONTENT STANDARDS:

- To define a binomial event and use the binomial distribution to calculate probabilities of binomial events.
- To explore when the use of the normal distribution is an appropriate model for the binomial distribution and apply it to calculate probabilities for larger sample sizes.

PROCESS STANDARDS:

- Students will determine what information is relevant for a given situation.*
- Students will make informed decisions based on the information they are provided with.*
- Students will demonstrate effective communication skills when presenting information in written form.*

Chapter 4: Confidence Intervals Standards

CONTENT STANDARDS:

- To determine a confidence interval around our sample proportion that will likely contain the true proportion in the population.
- To explore the relationship between sample size, confidence level, and margin of error.

PROCESS STANDARDS:

- Students will apply course content to their own life.*
- Students will use problem solving techniques to decide how to approach a scenario.*
- Students will demonstrate effective communication skills when presenting information in written form.*
- Students will determine what information is relevant for a given situation.*

