

## AP Statistics – Chapter 9 Notes: Sampling Distributions

### 9.1 – Sampling Distributions

**Parameter** – a number that describes a population (usually unknown)

**Statistics** – a number that describes a sample (used to estimate a parameter)

| Symbols used | Sample Statistic | Population Parameter |
|--------------|------------------|----------------------|
| Proportions  | $\hat{p}$        | $p$                  |
| Means        | $\bar{x}$        | $\mu$                |

**Sampling Distribution** – the distribution of all values taken by a statistic in all possible samples of the same size from the same population

A statistic is called an **unbiased estimator** of a parameter if the mean of its sampling distribution is equal to the parameter being estimated

#### Important Concepts for unbiased estimators

- The mean of a sampling distribution will always equal the mean of the population for any sample size
- The spread of a sampling distribution is affected by the sample size, *not the population size*. Specifically, larger sample sizes result in smaller spread.

### 9.2 – Sample Proportions

Choose an SRS of size  $n$  from a large population with population proportion  $p$  having some characteristic of interest.

Let  $\hat{p}$  be the proportion of the sample having that characteristic. Then the mean and standard deviation of the sampling distribution of  $\hat{p}$  are

$$\text{Mean: } \mu_{\hat{p}} = p$$

$$\text{Std. Dev.: } \sigma_{\hat{p}} = \sqrt{\frac{p(1-p)}{n}}$$

#### CONDITIONS FOR NORMALITY

##### Rule Of Thumb 1

Use the formula for the standard deviation of  $\hat{p}$  only when the size of the population is at least 10 times as large as the sample size.

##### Rule Of Thumb 2

We will use the normal approximation to the sampling distribution of  $\hat{p}$  for values of  $n$  and  $p$  that satisfy  $np \geq 10$  and  $n(1-p) \geq 10$ .

### 9.3 – Sample Means

Suppose that  $\bar{x}$  is the mean of a sample from a large population with mean  $\mu$  and standard deviation  $\sigma$ . Then the mean and standard deviation of the sampling distribution of  $\bar{x}$  are

$$\text{Mean: } \mu_{\bar{x}} = \mu$$

$$\text{Std. Dev.: } \sigma_{\bar{x}} = \frac{\sigma}{\sqrt{n}}$$

#### CONDITIONS FOR NORMALITY

If an SRS is drawn from a population that has the normal distribution with mean  $\mu$  and standard deviation  $\sigma$ , then the sample mean  $\bar{x}$  will have the normal distribution  $N(\mu, \sigma/\sqrt{n})$  for any sample size.

#### Central Limit Theorem

If an SRS is drawn from any population with mean  $\mu$  and standard deviation  $\sigma$ , when  $n$  is large ( $n \geq 30$ ), the sampling distribution of the sample mean  $\bar{x}$  will have the normal distribution  $N(\mu, \sigma/\sqrt{n})$ .

# Ap Statistics Chapter 9 Answers

**Duane C. Hinders, Corey  
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## **Table of Contents Ap Statistics Chapter 9 Answers**

1. Understanding the eBook Ap Statistics Chapter 9 Answers
  - The Rise of Digital Reading Ap Statistics Chapter 9 Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Ap Statistics Chapter 9 Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ap Statistics Chapter 9 Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Statistics Chapter 9 Answers
  - Personalized Recommendations
  - Ap Statistics Chapter 9 Answers User Reviews and Ratings
  - Ap Statistics Chapter 9 Answers and Bestseller Lists
5. Accessing Ap Statistics Chapter 9 Answers Free and Paid eBooks

- Ap Statistics Chapter 9 Answers Public Domain eBooks
  - Ap Statistics Chapter 9 Answers eBook Subscription Services
  - Ap Statistics Chapter 9 Answers Budget-Friendly Options
6. Navigating Ap Statistics Chapter 9 Answers eBook Formats
    - ePub, PDF, MOBI, and More
    - Ap Statistics Chapter 9 Answers Compatibility with Devices
    - Ap Statistics Chapter 9 Answers Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Ap Statistics Chapter 9 Answers
    - Highlighting and Note-Taking Ap Statistics Chapter 9 Answers
    - Interactive Elements Ap Statistics Chapter 9 Answers
  8. Staying Engaged with Ap Statistics Chapter 9 Answers
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Ap Statistics Chapter 9 Answers
  9. Balancing eBooks and Physical Books Ap Statistics Chapter 9 Answers
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Ap Statistics Chapter 9 Answers
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Ap Statistics Chapter 9 Answers
    - Setting Reading Goals Ap Statistics Chapter 9 Answers
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Ap Statistics Chapter 9 Answers
    - Fact-Checking eBook Content of Ap Statistics Chapter 9 Answers
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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