

AP Statistics  
Chapter 8

8.1 Confidence Intervals: The Basics

**DEFINITION: Point estimator and point estimate**

**DEFINITION: Confidence interval**

**DEFINITION: Confidence level**

## Interpreting a Confidence Intervals

## DEFINITION: Margin of Error

## Interpreting Confidence Levels

## Decreasing the Margin of Error

### DEFINITION: Critical value

## 8.2 Estimating a Population Proportion

### One-sample $z$ Interval for a Population Proportion

**DEFINITION: Standard error**

**Conditions for Constructing a Confidence Interval About a Proportion**

**Confidence Intervals: A Four-Step Process**

## **Sample Size for Desired Margin of Error**

### 8.3 Estimating a Difference in Proportions

#### **Conditions for Constructing a Confidence Interval about a Difference in Proportions**

## **Two-Sample z Interval for a Difference Between Two Proportions**

## **Inference for Experiments**