

# AP Statistics

## Chapter 11

### 11.1 Tests About a Population Mean

<b>Conditions for Performing a Significance Test About a Mean</b>

<b>Standardized Test Statistic and Formula for t Test Statistic</b>

**DEFINITION:  $t$  distribution**

**One-Sample  $t$  Test for a Mean**

## **Two-sided Tests and Confidence Intervals**

## **Using Tests Wisely**

## **Beware of Multiple Analyses**

### 11.2 Tests About a Difference in Means

#### **Conditions for Performing a Significance Test about a Difference in Means**

## **Two-Sample $t$ Test for the Difference Between Two Means**

## **Conditions for Performing a Significance Test about a Mean Difference**

**One-Sample  $t$  Test for a Mean Difference**  
(Paired  $t$  Test for a Mean Difference)

**Paired Data or Two Samples?**