

AP Statistics

Vocabulary Ch. 9 – 10

Chapter 9

Significance test

The Truth vs. Decision two-way table

Hypotheses

Null hypothesis

Alternative hypothesis

P-Value

Statistically significant

Significance level

One-sided alternative hypothesis

Two-sided alternative hypothesis

Type I Error

Type II Error

Tests about a population proportion

Conditions for performing a significance test about a population proportion

Test statistic

Four-step process for significance tests

One-sample z test for a proportion

Power of a test

Conditions for performing a significance test about a population proportion

One-sample t test for a mean

Two-sided tests and confidence intervals

Paired data

Determining sample size

Interpreting Type I and Type II errors in context

Chapter 10

Sampling distribution of difference of sample proportions: $\hat{p}_1 - \hat{p}_2$

Conditions for confidence interval procedures about difference in population proportions: $p_1 - p_2$

Standard error of the statistic $\hat{p}_1 - \hat{p}_2$

Two-sample z interval for difference in population proportions: $p_1 - p_2$

Conditions for significance test procedures about difference in population proportions: $p_1 - p_2$

Pooled sample proportion

Two-sample z test for difference in population proportions: $p_1 - p_2$

Sampling distribution of difference of sample means: $\bar{x}_1 - \bar{x}_2$

Conditions for confidence interval procedures about difference in population means: $\mu_1 - \mu_2$

Conditions for significance test procedures about difference in population means: $\mu_1 - \mu_2$

Degrees of freedom for two-sample t test