

## 10.7: Structured Summary for the One-Way ANOVA

After carefully reading the chapter, complete the following structured summary to add a learning check and easy-to-use reference to your notes.

Summarize what each symbol stands for, assuming three groups are being compared.

$n_1 =$

$n_2 =$

$n_3 =$

$N =$

$\bar{X}_1 =$

$\bar{X}_2 =$

$\bar{X}_3 =$

$\bar{X}_{\text{grand}} =$

$s_1 =$

$s_2 =$

$s_3 =$

$SS_{w1} =$

$SS_{w2} =$

$SS_{w3} =$

$SS_w =$

$SS_{b1} =$

$SS_{b2} =$

$SS_{b3} =$

$SS_b =$

$df_w =$

$df_b =$

$MSS_w =$

$MSS_b =$

Fill-in the appropriate information for each section below:

### 1. One-way ANOVA Basics

- For which kinds of data can/should this be used?
- What is the focus of this statistic?
- What assumptions must the data meet to use this test?

### 2. One-way ANOVA Formula

- What is the formula for a one-way ANOVA?
- What things should be computed in the preparatory steps for using this formula?
- What are the steps for solving using this formula?

### 3. Reporting Results from a one-way ANOVA

- How is this statistic reported when using APA format?
  - What things must be reported in the APA summary sentence for the omnibus test?

- ii. What two specific statistics must be reported for each of the independent groups (which may appear as part of the post-hoc results sentences)?
  - iii. How is effect size computed and reported for a one-way ANOVA?
  - iv. How are post-hoc comparisons computed and reported for a one-way ANOVA?
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