

## 13.1: Comparing means from more than two Independent Populations

---

Suppose we wanted to compare the means of more than two ( $k$ ) independent populations and wanted to test the null hypothesis  $H_o : \mu_1 = \mu_2 = \dots = \mu_k$ .

If we can assume all population variances are equal, we can expand the pooled variance  $t$ -test for two populations to one factor ANOVA for  $k$  populations.

---

This page titled [13.1: Comparing means from more than two Independent Populations](#) is shared under a [CC BY-SA 4.0](#) license and was authored, remixed, and/or curated by [Maurice A. Geraghty](#) via [source content](#) that was edited to the style and standards of the LibreTexts platform.