

# Chapter 12

## Analysis of Variance

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### Section 12.1

12.1 The *F* distribution is continuous and skewed to the right. The *F* distribution has two numbers of degrees of freedom: *df* for the numerator and *df* for the denominator. The units of an *F* distribution, denoted by *F*, are nonnegative.

12.3 a.  $F = 7.26$   
 b.  $F = 5.82$   
 c.  $F = 5.27$

12.5 a.  $F = 3.49$   
 b.  $F = 2.61$

### Section 12.2

12.7 One-way ANOVA is used to test the null hypothesis that the means of three or more populations are equal. Note that ANOVA can be used to test for the equality of the means of two populations, but the procedures of Chapter 10 are more efficient in such cases.

12.9 a. For Sample I:  $n_1 = 6$ ,  $\Sigma x = 170$ ,  
 $\Sigma x^2 = 4946$

$$\bar{x}_1 = \Sigma x/n_1 = 170/6 = 28.333$$

$$s_1 = \sqrt{\frac{\Sigma x^2 - (\Sigma x)^2}{n_1 - 1}} = \sqrt{\frac{4946 - (170)^2}{6 - 1}} \\ = 5.08592830$$

For Sample II:  $n_2 = 6$ ,  $\Sigma x = 204$ ,  
 $\Sigma x^2 = 7048$

$$\bar{x}_2 = \Sigma x/n_2 = 204/6 = 34.000$$

$$s_2 = \sqrt{\frac{\Sigma x^2 - (\Sigma x)^2}{n_2 - 1}} = \sqrt{\frac{7048 - (204)^2}{6 - 1}} \\ = 4.73286383$$

b. Step 1:  $H_0: \mu_1 = \mu_2 = 0$ ,  $H_1: \mu_1 - \mu_2 \neq 0$   
 Step 2: Since  $\sigma_1$  and  $\sigma_2$  are unknown but assumed to be equal, the samples are independent, the sample sizes are small, and the populations are normally distributed, use the *t* distribution.  
 Step 3:  $df = n_1 + n_2 - 2 = 6 + 6 - 2 = 10$   
 For  $\alpha = 0.01$ , the critical values of *t* are  $-3.169$  and  $3.169$ .

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**Robert W. Fox, Alan T. McDonald, John  
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