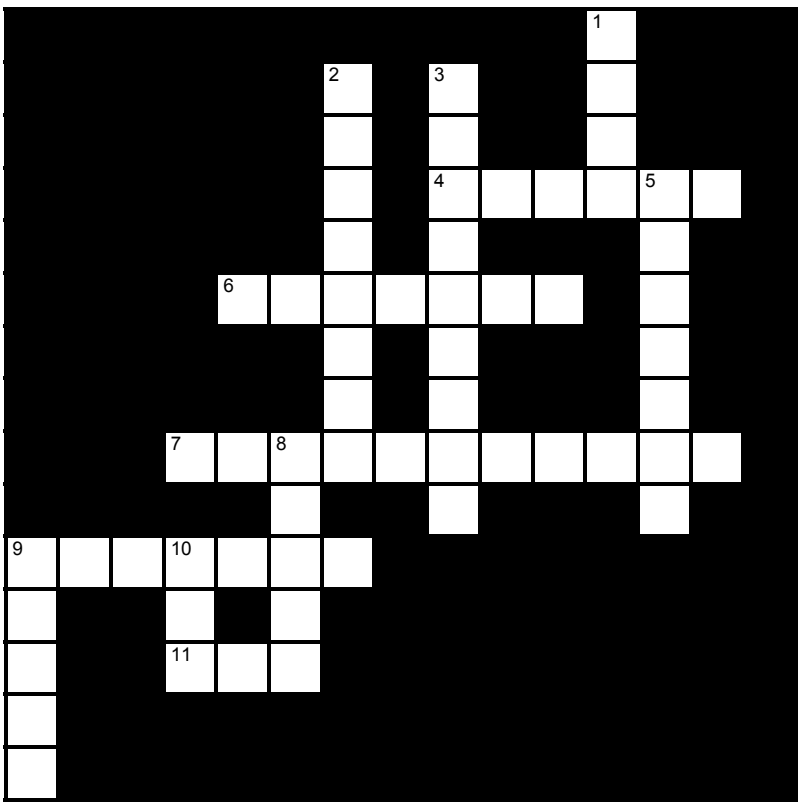
# Chapter 16 - Introduction to Two-Way Analysis of Variance



**Across**

**4** A significant main effect suggest that the changes across the variable are not likely to be due to _____. (6)

**6** A significant interaction indicates that the values of one variable are not _____ across all levels of the other. (7)

**7** An ____ effect occurs when the effect of one factor is not the same at all levels of another factor. (11)

**9** In a 2 X 4 X 3 ANOVA design, there would be three ___ having two, four, and three levels, respectively. (7)

**11** Number of dependent variables in a 2 x 2 factorial design. (3)

**Down**

**1** The effects of factor A (averaged over the levels of factor B) and the effect of factor B (averaged over the levels of factor A) are called ___ effects. (4)

**2** Statistically comparing mean differences at each level of the other variable is called ____ comparisons. (8)

**3** A ____ experiment is one in which the effects of two or more factors or independent variables are assessed in one experiment. (9)

**5** When there is a significant interaction effect, the main effects should be interpreted with _____. (7)

**8** In a 3 X 2 X 2 factorial design, there are _____ independent variables. (5)

**9** In a _____-factors design, the levels of the each factor are chosen by the researcher. (5)

**10** The ___-way analysis of variance allows us in one experiment to evaluate the effect of two independent variables and the interaction between them. (3)