$$SS_{TOTAL} = \Sigma x^2 - \frac{(\Sigma x)^2}{N} \qquad\qquad SS_E = SS_{TOTAL} - (SS_T + SS_B)$$

B. Complete the following chart using data accumulated to this point.

| Variance Analysis Summary Table | | | | |
|---|---|---|---|---|
| Variance Sources | df | Sum of the Squares | Mean Squares | ANOVA |
| Between Treatments | t - 1= | $SS_T =$ | $MS_T =$ | $F = \frac{MS_T}{MS_E} =$ |
| Block | b - 1= | $SS_B =$ | $MS_B =$ | |
| Within Treatments (error) | (t - 1)(b - 1) = | $SS_E =$ | $MS_E =$ | $F = \frac{MS_B}{MS_E} =$ |
| Total Variance | N - 1= | $SS_{TOTAL} =$ | | |

C. Using the 5-step approach to hypothesis testing, determine at the .05 level of significance whether these treatment and block means come from populations with equal means.

III. Using the chart data from pages 112 and 113, determine at the .01 level whether there is a difference between treatment means 1 and 2.