

Table 11.3

An ANOVA Source Table With Formulas

| | <i>Step 3a: Compute SS</i> | <i>Step 3b: Compute df</i> | <i>Step 3c: Compute MS</i> | <i>Step 3d: Compute F</i> | <i>Step 4: Compute Effect Size</i> |
|---------------------------|---|--------------------------------|---|---|---|
| Source of Variance | <i>SS</i> | <i>df</i> | <i>MS</i> | <i>F</i> | η_p^2 |
| Between treatments | $n(\sum M^2 - \frac{(\sum M)^2}{g})$ | $g - 1$ | $\frac{SS_{\text{between}}}{df_{\text{between}}}$ | $\frac{MS_{\text{between}}}{MS_{\text{error}}}$ | $\frac{SS_{\text{between}}}{SS_{\text{between}} + SS_{\text{error}}}$ |
| Within treatments (error) | $\sum SS_{\text{each treatment}}$ | $N - g$ | $\frac{SS_{\text{error}}}{df_{\text{error}}}$ | | |
| Total | $SS_{\text{between}} + SS_{\text{error}}$ | $N - 1$ | | | |

Note: g = number of IV conditions ($g = 3$; CBT, PDT, NT), N = number of people in the study (in this case, 18), and n = number of scores in each condition.