

(Continued)

For each main effect and the interaction, we plug in our numbers from the SPSS printout:

Main effect of Soup Consumption:

$$\begin{aligned}\eta^2 &= \frac{.096}{46.667} \\ &= .002\end{aligned}$$

Main effect of Comfort Food Status of Soup:

$$\begin{aligned}\eta^2 &= \frac{1.508}{46.667} \\ &= .032\end{aligned}$$

Interaction between the two factors:

$$\begin{aligned}\eta^2 &= \frac{1.806}{46.667} \\ &= .039\end{aligned}$$