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VISUAL SUMMARY

The Kruskal–Wallis Test

Before You Begin: State H_0 and H_1.

Compute $n_1, n_2, \ldots, n_k$, and N_{total}.

Combine the groups and rank the scores: Highest score gets a rank of 1.

Sum the ranks for *sample* 1: (ΣR_1)

Sum the ranks for sample 2: (ΣR_2)

Sum the ranks for sample *k:* (ΣR_k)

Compute *H:*

$$H = \left[\frac{12}{N_{total} \cdot (N_{total} + 1)}\right] \cdot \left[\frac{(\Sigma R_1)^2}{n_1} + \frac{(\Sigma R_2)^2}{n_2} + \cdots + \frac{(\Sigma R_k)^2}{n_k}\right] - [3 \cdot (N_{total} + 1)]$$

Find the critical value of *H* in the chi-square table, Table X, using *k* - 1 degrees of freedom.

Reject H_0 if *H* is *greater than or equal to* the critical value.