

Competition Corner: Pattern or Cause

g11_u09_w35

Original fictional table challenges. No real-data decision is implied.

Challenge 21. A fictional model predicts Y values 4.0, 6.0, 8.0; observed values are 4.2, 5.6, 8.5. Calculate all residuals and their magnitudes. Is there a simple pattern? State why it is not enough to validate the model.

Challenge 22. Fictional Group M has average $X = 2.0, Z = 1.0, Y = 6.0$; Group N has average $X = 3.0, Z = 2.0, Y = 8.0$. Give two competing explanations for the Y difference, then write a paper-data comparison that would better separate X from Z .