

Competition Corner: Constraint Ledger

g11_u01_w04

Original fictional paper cards only; no experimental activity is requested.

1. A line $y = 0.100x + 0.020$ is valid for $0 \leq x \leq 4$. For $y = 0.350 \pm 0.010$, infer x and uncertainty. Check range and a 3% relative-uncertainty rule.
2. A reported result has residual -0.015 , range status valid, and relative uncertainty 4.2% against a 3.0% criterion. Write the proper accept/revise decision.
3. Explain why passing every numerical constraint still does not prove the model's causal explanation.