

Competition Corner: Decision Boundaries

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Original fictional paper-model challenges. No test or decision procedure is implied.

Challenge 21. A fictional blank set has signals 0.044, 0.051, 0.055, 0.050, and a stated threshold 0.080. Find the blank mean and range. Unknown cards show 0.079, 0.080, 0.081. Classify each only after declaring whether the stated rule is greater-than or greater-than-or-equal-to. Explain why neither convention proves identity.

Challenge 22. Two fictional sets estimate 0.96, 1.04, 1.00 and 1.08, 1.12, 1.16 mg L^{-1} . Find each mean and half-range, then compare their simple intervals. Give the strongest bounded comparison and one missing source of uncertainty.