

Solutions

2.1 Answer: C. $\Delta I = k \times I = .02 \times 250 = 5$ g. The other options do not satisfy the stated defining conditions.

2.2 Answer: B. Payoffs move the criterion (bias); sensitivity depends on the signal and noise distributions. Compare the exact process, design or evidence, rather than an associated keyword.

2.3 Use the worked case evidence to support a bounded claim and explain why a causal, universal or stronger claim needs additional evidence. The claim must fit the specific design and observed process.

3.1 A warning can shift the response criterion toward reporting a signal. Compare both hit and false-alarm rates, not hits alone. Sensory adaptation concerns changing sensory response during sustained stimulation; the warning manipulation does not by itself establish that process. A sensitivity analysis could test whether signal/noise separation also changed. Award B1 each (authored) for the interpretation, its reasoning, a relevant limitation/alternative and an appropriate check, up to four points. Accept a different justified answer satisfying these demands.