



Evaluate Statistically Based Reports Checklist

Achievement

I can:

- Calculate margin of error and use it to construct confidence intervals
- Interpret confidence intervals in context
- Identify potential issues with surveys/studies (e.g., non-response bias, sampling methods)
- Compare proportions/percentages between groups
- Evaluate claims based on statistical evidence

Merit

I can

- Justify comments by referring to statistical evidence and processes described in reports
- Discuss how variables/factors may impact survey/study results
- Explain why specific statistical methods are appropriate or not in given contexts
- Integrate statistical and contextual information to assess the quality of reports

Excellence

I can:

- Critically evaluate reports by integrating statistical and contextual information
- Assess the quality of reports with respect to conclusions made
- Discuss the impact of potential issues on the validity and generalizability of results
- Provide insightful statistical reasoning and communicate mathematical understanding effectively
- Evaluate complex, multi-step statistical problems involving extended chains of reasoning