


# Research Methods (Psy 365)

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## Hypotheses

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### What We Will Cover in This Section

- Research hypotheses.
- Statistical hypotheses.
- Statistical hypotheses.
- How they work together.



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### Research Hypothesis

- A statement of what the researcher expects to find expressed in words.
  - The heart of the research project.

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## Characteristics of Effective Hypotheses

- 1. TESTABLE**  
The researcher can set up a situation that permits one to assess if it is true or false.
- 2. CONSISTENT**  
The hypothesis is consistent with other hypotheses.
- 3. PARSIMONIOUS**  
The hypothesis is simple.
- 4. RELEVANT**  
The hypothesis is relevant to the problem being studied.

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## Logical Hypotheses

- **Null hypothesis ( $H_0$ )**
  - Statement of the conditions that would exist if the research hypothesis was false.
- **Alternative hypothesis ( $H_a$ )**
  - The conditions that would exist if the research hypothesis was true.

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## Statistical Hypothesis

- **The statistical conditions that would exist if the null hypothesis is not true.**
  - A probabilistic situation.

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Exercise

- Develop hypotheses for each of the following possible situations.



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A fool and his money are soon parted.

- *What is the RESEARCH HYPOTHESIS?*
- *What is the*
  - *NULL HYPOTHESIS?*
  - *ALTERNATIVE HYPOTHESIS?*
- *What is the STATISTICAL HYPOTHESIS?*

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Early to bed, early to rise, makes a man healthy, wealthy, and wise.

- *What is the RESEARCH HYPOTHESIS?*
- *What is the*
  - *NULL HYPOTHESIS?*
  - *ALTERNATIVE HYPOTHESIS?*
- *What is the STATISTICAL HYPOTHESIS?*

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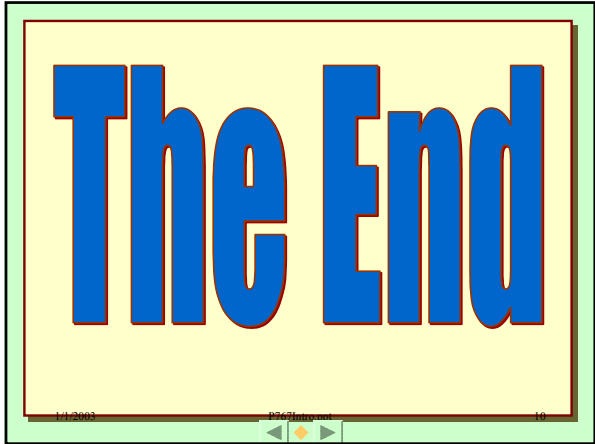
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