Statistical Literacy @ Augsburg

Marc Isaacson Dept of Business / MIS PKAL / Quirk Conference October 2010

Statistical Literacy at Augsburg

- BUS 264: Statistical Literacy for Managers
 - Audience: Option for all Business majors with the exception of Accounting / Finance
 - PreReq: Problem Solving for Business Course
 - Excel Based QR Skill Course
 - Focus: Less focus on Statistics Production, More emphasis on Statistics Consumption
 - Goal: Statistically Savvy Managers

Unique Traits of Stat Lit for Mgrs

- Critical Thinking Focus
 - Where Do Statistics Come From?
- · Heavy Emphasis on "Hypothetical Thinking"
 - Assembly and Alternate Explanations
- Communication Components
 - Reading Graphs / Tables
 - Describing / Comparing values from Graphs / Tables
 - News Article Evaluations
- · Course Survey Project using "Realistic Data"

What is Assembly?

- Selection of Operational Definition
 - how did they define categories?
 - how did they measure variables?

or

Selection of Data Presentation

- · Chart or Graph
- Type of Table
- Type of Comparison

Important Considerations!

- All data is "Assembled"
 - Choices must be made in process of creating / communicating quantitative data
 - Some choices are better than others
 - Some choices are made to further support an argument or position on an issue
 - We must always think critically about Assembly when confronted with statistical data / claims.

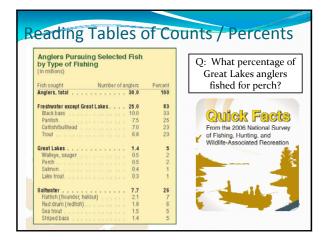


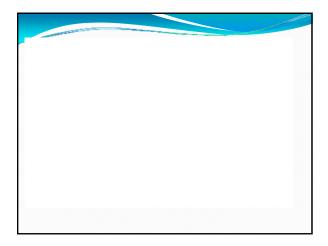
Half of Kids Live with Parent Substance Abuse

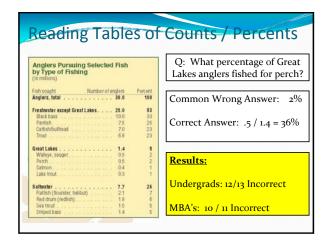
Report: Smokers, drinkers, addicts more likely to abuse children

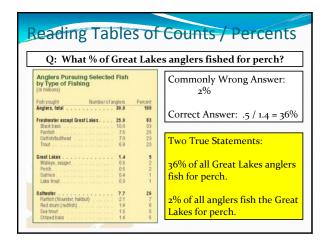
REUTERS :

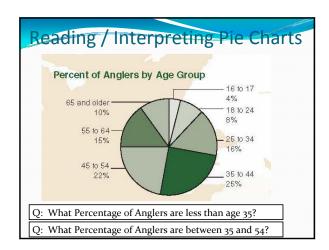
Updated: 5:43 p.m. ET March 29, 2005



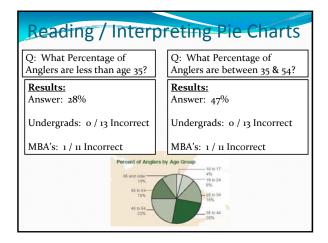


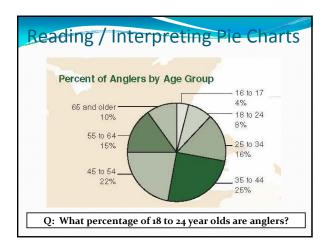


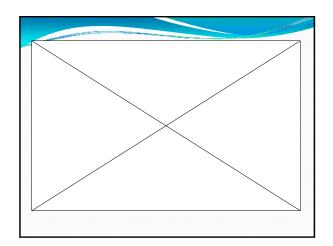


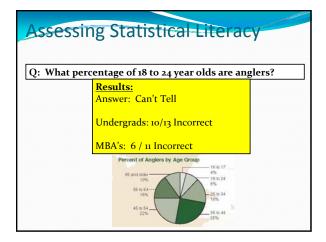












• This is not rocket science!

• Reading Tables, Pie Charts and Bar Graphs

• Writing Statements including #'s

• Interpreting Summary Data

• Test it out with your students!

• Link to Census Brochure:

• www.census.gov/prod/2008pubs/fhwo6-qkfact.pdf

• Link to 10 item sample survey:

• www.StatLit.org/pdf/2008IsaacsonQuestionsPKAL.pdf

• Questions / Comments?

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