## Statistics 1: Introduction to Probability and Statistics

**Section 1-3** 

## **Critical Thinking**

- Statistical thinking often depends more on common sense than on math skills
- Here, we apply common sense with critical thinking about data and statistical analysis

## **Abuses of Statistics**

- Bad samples
- Small samples
- Loaded questions
- Misleading graphs
- Pictographs

## **Abuses of Statistics** • Bad samples • Small samples • Loaded questions • Misleading graphs • Pictographs (More) Abuses of Statistics • Precise numbers • Distorted percentages • Partial pictures • Deliberate distortions **Abuses of Statistics** • Bad samples

Abuses of Statistics  • Small samples  -	
Abuses of Statistics  • Loaded questions  -	
Abuses of Statistics  • Misleading graphs  -	

Abuses of Statistics • Pictographs -	
Abuses of Statistics • Precise numbers -	
Abuses of Statistics • Distorted percentages -	

Abuses of Statistics • Partial pictures	
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Abuses of Statistics	
Deliberate distortions	
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