Exam I − Tuesday, September 24th
covering Chapters 1-3...

Chapter 1: basic recognition of terminology
qualitative *v.* quantitative, population *v.* sample, descriptive *v.* inferential, census, confounding, observational study *v.* experiment, double-blind, placebo; sampling methods: random ~ use of **Table 1** (p.A9) *v.* systematic, cluster *v.* stratified

Chapter 2: GRAPHS
bar, histogram, cluster, Pareto, pie/circle graph, time-series (time placed on horizontal axis); frequency (distribution, including relative & cumulative), symmetric (mound-shaped), left *v.* right skew; raw *v.* grouped data, class width/limits, midpoints, stem-and-leaf

Chapter 3: preponderance of emphasis on exam!

3.1　find the mode, median (MD), mean ($\bar{x}$ or μ), and 5% trimmed mean; weighted average

3.2　find the standard deviation (s or σ) for either raw data or grouped data (see p.117); find the coefficient of variation (CV); use Chebyshev's Theorem (formula for "k" to be provided)

3.3　determine the five-number summary values; box-and-whisker plots not covered

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9-12 problems, closed-book, use of a straight-edge, **calculator** (no smart phones or tablets are allowed); silence cell phones before entering classroom; entire class period to take the exam; scratch paper allowed, adequate space provided to do any work needed...