

STAT 269 - Introductory Statistics

Review Sheet for Exam 2

Unit 2 Part 1

- Types of Data:
 - Quantitative vs. Qualitative
 - Discrete vs. Continuous
 - 4 Levels: Nominal, Ordinal, Interval, and Ratio
- Experimental Design Terms
 - Placebo effect
 - Importance of Sample Size
 - Randomization
- Sampling methods:
 - Random Sample
 - Simple Random Sample (SRS)
 - Systematic Sampling
 - Stratified Sampling
 - Cluster Sampling
 - Convenience Sampling
- Sampling and Non-sampling errors
- Probability Experiment
- Outcome
- Sample Space
- Event
- Probability
- Law of Large Numbers
- Limits
- Interpreting
- Complement and Mutually Exclusive
- Independence
- Random Variable
- Features of Discrete Distribution
- Traits of a “Binomial Distribution”

Unit 1 Parts 2 and 3

- The Normal (or Gaussian) distribution
- Standardizing
- Finding probabilities using Table 4
- Working backwards to find a percentile
- The distribution of the sample mean \bar{X}

Important notes:

- You may have a 3×5 card again
- Bring your book or a copy of the tables you need
- Bring your own calculator