

Review for Exam 2 (Chapters 5, 6, 7)

Chapter 5

Key terms

- Raw score
- Deviation score
- Standardized distribution
- Standardized score
- z-score
- z-score transformation

Know how to transform X values into z-scores, and z-scores into X values.

Know how to calculate the standard deviation based on z-scores, x-value, and mean

Know how to calculate the mean based on z-scores, x-value, and standard deviation.

Understand and describe the effects of standardizing a distribution by transforming the entire set of X values into z-scores (e.g., what happens to the shape, the mean, and the standard deviation?)

Be able to use z-scores to transform any distribution into a standardized distribution with a predetermined mean and a predetermined standard deviation

Chapter 6

Key terms

- Probability
- Simple random sample
- Sampling with replacement
- Unit normal table

Be able to use the unit normal table to find probabilities for specific scores in a normal distribution and to find the scores that correspond to specific proportions of a normal distribution

Chapter 7

Key terms

- Sampling error
- Sampling distribution
- Expected value of M
- Law of large numbers
- Distribution of sample means
- Central limit theorem
- Standard error of M

Be able to determine the probabilities corresponding to specific sample means using the distribution of sample means, z-scores, and the unit normal table