Psych 560 Principles of Psychological Measurement

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Unit Objectives: Unit 2

Students should be able to:

1. Describe, and provide an example of, the four basic scales of measurement.

2. Write the formula, from memory, for the following statistics:
    mean
    standard deviation
    z-score

3. Provide a technically accurate and conceptually meaningful description of the following concepts:
    mean
    standard deviation
    z-score

4. Provide a technically accurate explanation of the following terms:
    skewness
    kurtosis
    frequency distribution
    normal distribution

5. State, from memory, the proportion of cases under a normal distribution between various whole standard deviation units, as well as the units and the mean.

6. State, from memory, the mean and standard deviation of the following scores:
    z score
    T score
    Deviation IQ score
    Scaled score
    CEEB score

7. Recalibrate a standard score from another, from memory.

8. Explain why one would need to change one standard score into another standard score.

9. Calculate the percentile rank of a raw score from a distribution of scores.

10. Calculate a percentile score from a standard score using a table of the proportion of cases under a normal distribution.

11. Differentiate and explain the difference between a linear and nonlinear transformation of scores, providing examples of each.

12. Differentiate and explain the differences between criterion-, individual-, and norm-referenced assessment.