**Module II: Individual Scores vs. Populations**

Statistics for the Behavioral Sciences

**Z-score?**

•Population mean (μ)

•Population standard deviation (σ)

•Individual score (X)

**•Z-scores allow for percentile conversion**

**•What percentile is 71 in. on height?**

**Z-score?**

•Population mean (μ) = 67

•Population standard deviation (σ) = 4.13

•Individual score (X) = 71

•Z-score is 0.97

**Table B-1**

**•Z-scores allow for percentile conversion**

•What percentile is 71 in. on height?

•Z-score is 0.97 (go to table B-1)

•Equals the 83rd percentile

**•Z-scores allow for percentile conversion**

•What percentile is 61 in. on height?

**Z-score?**

•Population mean (μ) = 67

•Population standard deviation (σ) = 4.13

•Individual score (X) = 61

Table B-1

•Z-score is -1.45

•Equals the 7th percentile