## **Frequencies**

- > ### Frequency Distribution
- > FrequencyTable <- table(Outcome)
- > FrequencyTable

Outcome 0 3 4 5 7 9 2 1 2 1 1 1 The first column lists all the actual scores in the entire data set. "Freq" indicates the number of times that score exists. For example, the score 4 was listed 2 times.

> prop.table(FrequencyTable)

Outcome

The "prop.table" provides the proportion of cases for each possible score. For example, of the 8 scores in the entire data set, the score of 4 was listed 2 times and 2/8 is .250.

- > ### Descriptive Statistics
- > length (Outcome)

[1] 8

> summary(Outcome)

"Summary" provides the scores associated with particular percentile ranks. For example, the 50<sup>th</sup> percentile is the score in the following position:

$$Position = PR(N + 1) = .50(8 + 1) = 4.5$$

Thus, the score at the  $50^{th}$  percentile ("Median") is the  $4.5^{th}$  score in the frequency distribution – a score of 4.