Lab 2: Preliminary Concepts Key

1) a. Descriptive: serves to organize, summarize, and describe data.
   Inferential: makes generalizations about a population based on the data from a sample.
b. Parameters: description of a characteristic of a population
   Statistics: description of a characteristic of a sample
c. Continuous: can occur in any conceivable amount.
   Discontinuous: Can only occur in integer amounts.

2) a. interval
   b. interval
   c. ratio
   d. nominal
   e. ratio
   f. interval
   g. ratio
   h. ordinal
   i. ratio
   j. ordinal

3) a. 27.6
   b. 69.3
   c. 98.8
   d. 14.4
   e. 84.9
   f. 26.0
   g. 55.1

4) a. 26.5-27.5
   b. 67.99995-68.00005
   c. 34.15-34.25
   d. 88.735-88.745
   e. 78.0005-78.0015

5) \[ \sum_{i=2}^{6} X_i = 8 + 12 + 13 + 16 + 20 = 69 \]