1. What measure of central tendency is most sensitive to extreme values?
   A) Mode   B) Median   C) Mean   D) They are about the same.  **Ans. C**

2. A market research company has collected data on the price of a particular brand of soap in several different locations. The prices ($) are as follows:
   0.89, 0.95, 1.25, 1.36, 1.49, 1.55, 1.65, 1.79, 1.89, 1.99.
   Draw a boxplot based on the five-number-summary: Min, Q1, Median, Q3, Max.
   
   **Min=0.89  Q1=1.25  Median= 1.52  Q3=1.79  Max=1.99**

3. Find the sample mean and sample standard deviation of the data: 2, 5, 8, 6, 1.
   
   Sample mean  \( \bar{x} = \frac{1}{n} \sum_{i=1}^{n} x_i = \frac{1}{5} (2 + 5 + 6 + 8 + 1) = \frac{22}{5} = 4.4 \)

   Sample standard deviation  
   \[ s = \sqrt{s^2} = \sqrt{\frac{1}{n-1} \sum_{i=1}^{n} (x_i - \bar{x})^2} = \sqrt{\frac{1}{4} \sum_{i=1}^{5} (x_i - 4.4)^2} = \sqrt{8.3} = 2.88 \]