

Scientific Computing
Mean, Variance, and Standard Deviation Worksheet

Assume set X contains these numbers: {3, 9, 0, 2, 17, 8}

Question 1: How many elements are in set X?

$$n =$$

Question 2: What is the mean (μ) of set X?

$$\mu = \frac{1}{n} \sum_{i=1}^n x_i$$

$$\mu =$$

Question 3: What is the variance (σ^2) of set X?

$$\sigma^2 = \frac{1}{n} \sum_{i=1}^n (x_i - \mu)^2$$

$$\sigma^2 =$$

Question 4: What is the standard deviation (σ) of set X?

$$\sigma = \sqrt{\sigma^2}$$

$$\sigma =$$