# Sample Worksheet

Water samples were drawn from the Hudson River on 6 randomly selected days and the PCB content in the water sample was measured. The results were:

2, 10, 9, 4, 8, 3, 9, 10, 4

a) Compute the mean: _____

b) Compute the range: _____

c) Compute the variance: _____

d) Compute the standard deviation: _____

You may want to use the following table and formulas:

| X | X - mean | $(X - \text{mean})^2$ |
|---|----------|-----------------------|
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$$\text{Mean} = \frac{1}{n}\sum x$$

$$\text{Variance} = \frac{1}{n-1}\left[\sum (x_i - \bar{x})^2\right]$$

$$\text{Std. Dev} = \sqrt{\text{var}}$$