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:

<table>
<thead>
<tr>
<th>x</th>
<th>X - mean</th>
<th>(X – mean)^2</th>
</tr>
</thead>
</table>

\[
\text{Mean} = \frac{1}{n} \sum x
\]

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

\[
\text{Std. Dev} = \sqrt{\text{var}}
\]