

### Range and Variance

Range refers to the difference between the smallest number and the largest number possible for a given quantity.

**Example 1** - Philip paces off some fire run distances and gets the following values in chains: 7.5, 6.0, 8.5, 5.5, 9.0. Find the range for the measurements.

Step 1. Arrange the numbers in ascending order (from the smallest to the largest).  
5.5, 6.0, 7.5, 8.5, 9.0

Step 2. Subtract the largest number from the smallest number.  
 $9.0 - 5.5 = 3.5$

The range is from 5.5 chains to 9.0 chains or 3.5 chains.