**Prerequisite 1**

1. Create a set of 6 data points such that the variance and standard deviation is zero.

Make a dotplot of the distribution.

1. Create a set of 6 data points such that the variance and standard deviation is one.

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1. Create a set of 6 data points such that the variance is four and the standard deviation is two. Make a dotplot of the distribution.
2. Create a set of 6 data points such that the variance is four and the standard deviation is two and the mean is seven. Make a dotplot of the distribution.
3. Create a set of 6 data points such that the variance is sixteen and the standard deviation is four and the mean is ten. Make a dotplot of the distribution.
4. What does the standard deviation measure?

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