

1. What does the standard deviation of a set of data tell you about the data?
2. Explain what a small standard deviation means.
3. Explain what a large standard deviation means.
4. Explain how to use a graphing calculator to calculate the standard deviation of a set of data.
5. Create a data set with at least 6 entries such that the standard deviation is 0.
6. Create a set of data that has a standard deviation of at least 2 but no more than 8. Compute the mean and standard deviation.

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Answers may vary. Sample: the standard deviation is a measure of the variability of the data, of
[1] how much the data varies from the mean.

[2] The data cluster around the mean.

[3] The data spread out from the mean.

Choose STAT and EDIT to enter your data. Then choose STAT, CALC, and 1-VAR STATS to
[4] calculate. The standard deviation is indicated by the σ_x .

[5] Answers may vary. Sample: 8, 8, 8, 8, 8, 8

[6] Answers may vary. Sample: 18, 19, 20, 22, 23, 23, 23, 24, 26; mean: 22; standard deviation: 2.4