

Homework 13

Deviations

1. Find the mean and the standard deviation of this set of data.

24, 25, 15, 19, 17

Your task in the rest of this assignment is to make up new sets of data items, each having either the same mean or the same standard deviation as the data set in Question 1.

If you can, do these problems without actually calculating the mean or the standard deviation of each new set of data, and explain how you know without calculating that the data set fits the conditions.

2. Make up a set of five data items that has the *same mean* as the data set in Question 1 but has a *smaller standard deviation*.
3. Make up a set of five data items that has the *same mean* as the data set in Question 1 but has a *larger standard deviation*.
4. Make up a set of five data items that has the *same standard deviation* as the data set in Question 1 but has a *different mean*.

