

Let's look at an example of 2 data sets and their standard deviation: (See Powerpoint)



a. Find the standard deviation of the data set:
41, 42, 43, 48, 51 () find average (mean)
4 3 2 3 6 (2) distance from
the mean

$$16 + 9 + 4 + 9 + 36$$
(3) square
 74 (4) Sum
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 74 (5) Divide by number
of data values
 $14.8 = 3.85$ (6) Square root

b. Without calculating the standard deviation Predict if it would be bigger or smaller than the standard deviation in part a. Why?

34, 42, 43, 48, 58

$$J J M = 45$$

11 3 2 3 13
121 9 4 9 169
312
312 = 62.4
 $5 = 62.4$