

Deviations

1. Find the mean and the standard deviation of these data.

24, 25, 15, 19, 17

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

If you can, do these problems without actually calculating the mean or the standard deviation of each new data set. 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 in Question 1 but that has a smaller standard deviation.
3. Make up a set of five data items that has the same mean as the data in Question 1 but that has a larger standard deviation.
4. Make up a set of five data items that has the same standard deviation as the data in Question 1 but that has a different mean.

