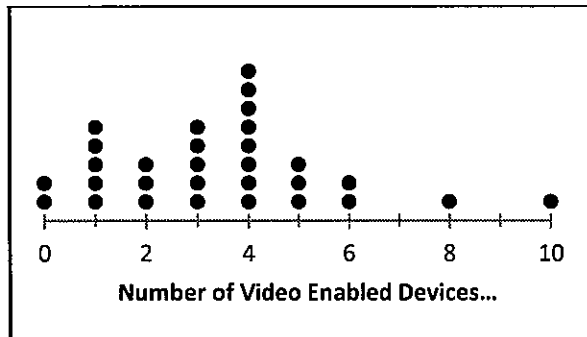
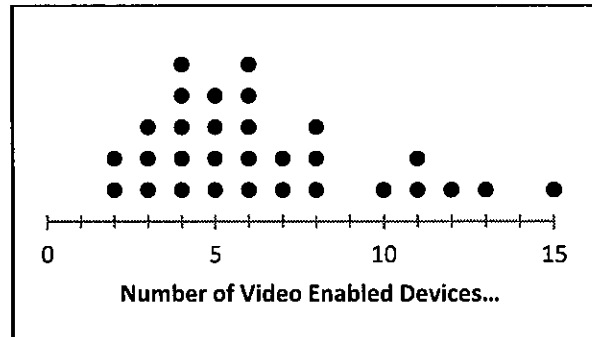




6. We are going to revisit our survey of households that have video enabled devices (televisions, smart phones, tablets, etcetera). Recall that two surveys were done, each with 30 participants. In the first case (Survey A), the survey was random, in the second case (Survey B), the survey only included families with at least one teenager. The dot plots of the results are shown below.



Survey A



Survey B

- (a) Enter the data into your calculator and use it to calculate the mean number of devices, the interquartile range, and the standard deviation of both data sets. Round all non-integers to the nearest tenth. Remember, you will have to enter a given data point more than once. For example, in Survey A, you will need to enter 2-0's, 5-1's, 3-2's, etcetera. Use the **sample standard deviation**.

**Survey A Statistics:**

**Survey B Statistics:**

- (b) Which of these two survey data sets had the greatest variation in the data? Explain based on the statistics you found in part (a).

- (c) How many of the 30 values in Survey B fall within one standard deviation of the mean? To do this calculation, add the standard deviation and subtract the standard deviation from the mean and then count the number of values between the results of this addition and subtraction.

