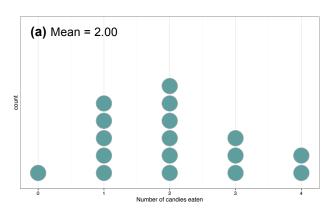
How Far Apart? (with standard deviation – SD)

Instructions:

Each of the dotplots below depicts the number of candies eaten by a group of 17 high school students on different days of the week. The means are given.

<u>Note:</u> the plots are labeled (a) and (c) to correspond with the plots on the *Where is the Middle?* handout (LMR_2.5).

Answer questions (i) – (iii) below.



(c) Mean = 2.53

Shape: Left-Skewed Right-Skewed Symmetric

Shape: Left-Skewed Right-Skewed Symmetric

i. Determine the shape of each distribution by circling the corresponding option below the dotplot.

ii. Without doing any calculations - just by looking at the distributions - which one do you think will have a larger standard deviation? Why?

iii. Calculate the standard deviation for each distribution by using the formula. Space has been provided to show your work on the following page.

$$s = \sqrt{\frac{\sum_{i=1}^{n} (x_i - \bar{x})^2}{n}}$$

		Date:	
		How Far Apart? ith standard deviation – SD)	
Standard deviation for pl	lot (a):		

Standard deviation for plot (c):