

Name: _____

Date: _____

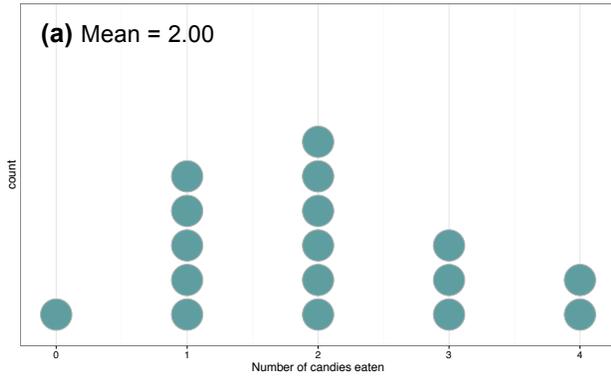
How Far Apart?

Instructions:

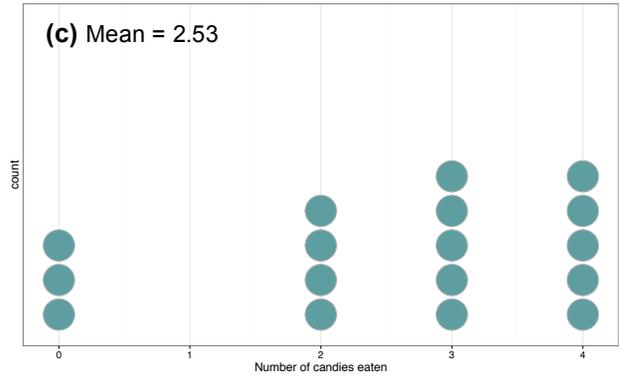
Each of the dotplots below depicts the number of candies eaten by a group of 17 high school students on different days of the week. The means are given.

Note: 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.



Shape: Left-Skewed Right-Skewed Symmetric



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- Determine the shape of each distribution by circling the corresponding option below the dotplot.
- Without doing any calculations - just by looking at the distributions - which one do you think will have a larger MAD value? Why?

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

$$MAD = \frac{\sum_{i=1}^n |x_i - \bar{x}|}{n}$$

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How Far Apart?

MAD for plot (a):

MAD for plot (c):