

When To Use Dot Plots - Step-by-Step Lesson

Many people take a wide array of time to consume their entire breakfast. The amount of time differs based on if they are morning or night people. We took a quick poll on fifteen different students to find the amount of time (in minutes) that they took to eat breakfast and found the following data: 5, 8, 6, 13, 7, 10, 13, 7, 12, 8, 9, 11, 8, 10, 9, 13, 7, 5, 13. Create a dot plot to display the amount of time it takes these students to eat their breakfast.



Step 1) Arrange the data. This is the data that was presented:

(5, 8, 6, 13, 7, 10, 13, 7, 12, 8, 9, 11, 8, 10, 9, 13, 7, 5, 13)

Arranging the data from lowest to highest, it appears as:

(5, 5, 6, 7, 7, 7, 8, 8, 8, 9, 9, 10, 10, 11, 12, 13, 13, 13, 13)

Step 2) Level a dot plot based on the values of the data that are present. Based on the values that this set has available you will expect to divide them in a range from 5 to 13.

(5, 5, 6, 7, 7, 7, 8, 8, 8, 9, 9, 10, 10, 11, 12, 13, 13, 13, 13)

Arrange as data value- frequency:

5- 2, 6- 1, 7- 3, 8- 3, 9- 2, 10- 2, 11- 1, 12- 1, 13- 4

Step 3) Organize the frequency of your data into a dot plot. We will use an  to indicate each instance of a data point.

