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10.4 Interpret Stem-and-Leaf Plots and Histograms



You found measures of central tendency and dispersion.

You will make stem-and-leaf plots and histograms.

So you can analyze historical data, as in Ex. 20.

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A stem-and-leaf plot is a data display that organizes data based on their digits.

Example: 65, 72, 52, 84, 66, 82, 57, 66, 58, 80, 62, 59, 52

5tem	leaves
5	27892
6	5662
7	a
8	420

5 22789 6 2666 7 2 8 084

Not just for 2 digit numbers!

EXAMPLE 1 Make a stem-and-leaf plot

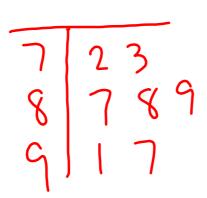
BASEBALL The number of home runs hit by the 20 baseball players with the best single-season batting averages in Major League Baseball since 1900 are listed below. Make a stem-and-leaf plot of the data.

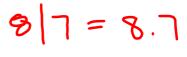
14, 25, 8, 8, 7, 7, 19, 37, 39, 18, 42, 23, 4, 32, 14, 21, 3, 12, 19, 41

EXAMPLE 2 Interpret a stem-and-leaf plot

GYMNASTICS The back-to-back stem-and-leaf plot shows the ages of members of the U.S men's and women's 2004 Olympic gymnastics teams. Compare the ages of the gymnasts on the two teams.

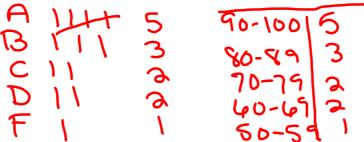




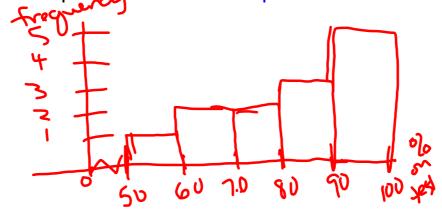


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The frequency of an interval is the number of data values in that interval. Here is an example of a frequency table:

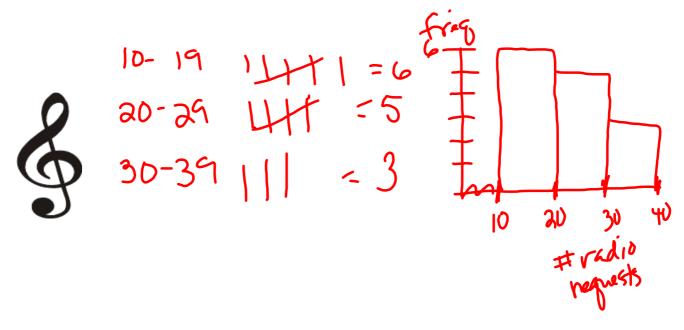


A histogram is a bar graph that displays data from a frequency table. Each bar represents an interval. Because intervals have equal size, the bars have equal width. A bar's length indicates the frequency. There is no space between bars.



The number of song requests per day for a two week period at a radio station are shown below. Make a histogram of the data.

12, 22, 18, 26, 31, 34, 17, 26, 28, 10, 20, 14, 15, 32



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Homework:

Lesson 10-4 Worksheet (Both Sides)