

Name \_\_\_\_\_

**Pre-Algebra Notes**  
**Week 15: Lesson 11.1**

**Stem-and-Leaf Plots and Histograms (11.1)**

**Vocab.**

- **Stem-and-leaf plot:** A \_\_\_\_\_ display that \_\_\_\_\_ data based on their digits.
  - Each value is separated into a \_\_\_\_\_ (the leading digits) and a \_\_\_\_\_ (the last digit).

**Example 1:** Making a stem-and-leaf plot

The distances below (in centimeters) show 11 jumps from the final round of a women's long jump competition and are listed below. Display the distances using a stem-and-leaf plot.

669, 702, 644, 701, 684, 686, 676, 673, 688, 670, 662

**Example 2:** Interpreting stem-and-leaf plot

The plot shows the prices (in dollars) of the pairs of sneakers at two shoe stores. What can you conclude about the prices at the two stores?

Store A

3		0 2 5 6 9
4		1 1 5 5 9
5		0 3 4 5 8
6		0 0 2 5

Store B

3		0 0 5 9
4		0 0 2 3 3 5 5 5
5		4 4 5 8
6		5 9



- **Histogram:** displays \_\_\_\_\_ from a \_\_\_\_\_ table.

#### Example 4: Making a Histogram

Make a histogram using the frequency table in Example 3.

- 1 Show the intervals from the frequency table on the horizontal axis, and show the frequencies on the vertical axis.
- 2 Draw a bar to represent the frequency for each interval.
- 3 Give the histogram a title

#### Example 5: Interpreting a Histogram

The histogram shows the number of minutes that 100 students spent on the Internet in one day. Make several conclusions about the data.



