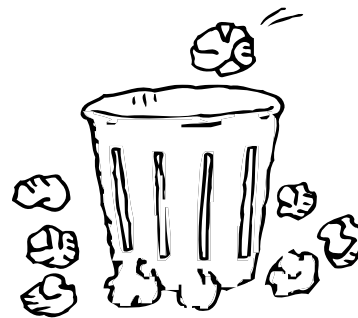


Creating a Double Stem-and-Leaf Plot

Are most students better shots with their left or right hand? To find out, do this experiment at home to gather some data. Then complete the stem-and-leaf graph in class.

At home, crumple a piece of notebook paper into a ball. Next, place a trash can exactly 15 feet from where you are standing. Using the paper ball, take 30 shots with your right hand. Take 30 shots with your left hand. Record both scores. In class, record each person's scores on the left and right sides of the stem-and-leaf plot.



Title: _____

| <i>Left-hand Shots</i> | | <i>Right-hand Shots</i> |
|------------------------|---|-------------------------|
| | 0 | |
| | • | |
| | 1 | |
| | • | |
| | 2 | |
| | • | |
| | 3 | |

Use your completed stem-and-leaf plot to answer each question.

1. Did the students in your class make more shots with the left or right hand? _____
2. What was the most shots made right-handed? _____ Left-handed? _____
3. What was the average number of shots made left-handed? _____ Right-handed? _____
4. What was the range of shots made left-handed? _____ Right-handed? _____
5. How many people made more than 20 shots with either hand? _____
6. What was the median number of shots made, using either hand? _____

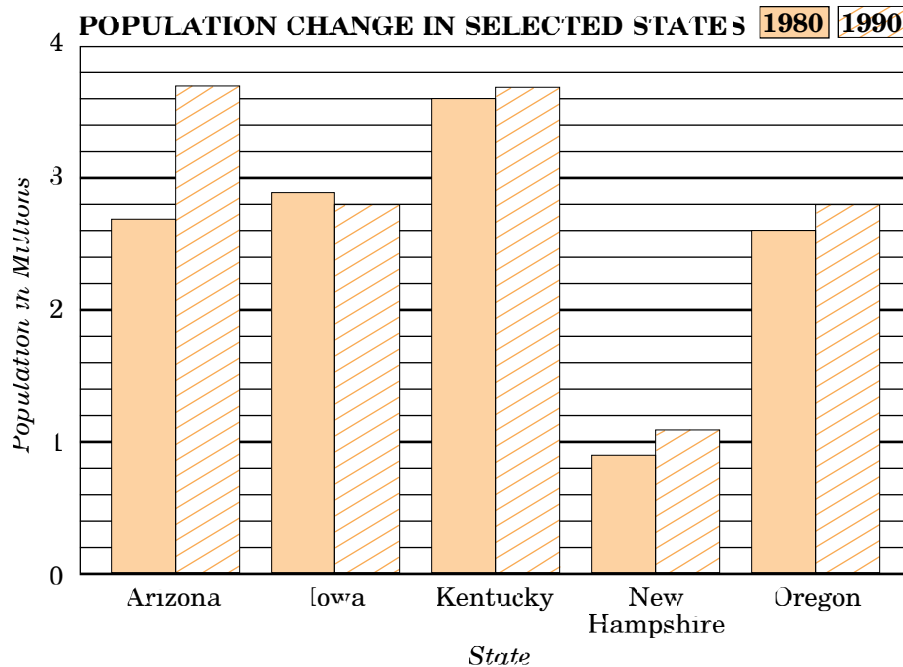
On Your Own

Review your stem-and-leaf plot. Are the most successful shooters right-handed or left-handed?

Write a conclusion to answer that question and support it with evidence.

Using a Double-Bar Graph

A double-bar graph compares several things in two different ways.



Use the bar graph to answer each question.

- How many states are represented? _____
- What was the population of New Hampshire in 1980? _____
- Which state lost population? _____
- Which state gained nearly a million people? _____
- In 1980, how much greater was the population of Kentucky than of Arizona?
- How much greater was the population of New Hampshire in 1990 than in 1980?
- How much smaller was the population of Arizona in 1980 than in 1990?
- Did Iowa or Oregon have the greater change in population? By how much?

On Your Own

Look at the bar graph again. If each state displays growth that is representative of its region, what conclusions can you draw about population change in different parts of the United States?