## Stem-and-Leaf Plots

Input the given data into lists of your graphing calculator. Let
L1 = Texas Education Region Numbers
L2 $=$ Total Students Enrolled in Region 1987-88
L3 = Total Students Enrolled in Region 1997-98

1. Begin with the data set in L2 (1987-1988 Total Student Population). Sort L2 in ascending order. Decide which numbers will serve as the stem. Will you round to the nearest thousands place, the nearest ten-thousands place, or the nearest hundred-thousands place?
2. Decide which numbers will serve as the leaves. List the leaves for L2 on the left side of the stem.
3. Use the same stem to create a stem-and-leaf plot for the data in L3 (1997-1998 Total Student Population). List the leaves for L3 on the right side of the stem.
4. What does the stem-and-leaf plot tell us about the data in L2 and L3 in terms of student population distribution?
5. Using the stem-and-leaf plots, determine the mean, median, and $1^{\text {st }}$ and $3^{\text {rd }}$ quartile values for the two sets of data.

## Texas Student Enrollment Trends by Region (1987-88 to 1997-98)



| Enrollment Trends $1987-88$ to 1997-98 |  |  |  |
| :--- | ---: | ---: | ---: |
|  |  | $1987-1988$ | $1997-1998$ |$]$

