

Survey and Statistics

What is Your
Favorite Subject?

How Many
Different
Sports Do You
Play Well?

How Many
Times a Week
Do You Eat
Lunch?



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Survey and Statistics
Lesson 6
Creating Stem and Leaf Plots

Objectives:

Students will create stem and leaf plots

Materials Needed:

Survey Statistical Worksheet

Opening Activity:

- Write the following numbers on the board:
 23, 45, 67, 23, 98, 77, 67, 77, 89, 88, 66, 56, 23, 90, 52, 65, 85, 46, 25, 35
- Ask the students how they might organize the data on the board for clearer understanding. (Some answers might be listing the answers in order, creating a bar graph or chart.)

Activity:

- Explain how to create a stem and leaf plot using the number on the chalkboard. A stem and leaf plot categorizes the numerical data in groups of ten. The above data would be written as:

2	3, 3, 3, 5
3	5
4	5, 6
5	2, 6
6	5, 6, 7, 7
7	7, 7
8	5, 8, 9
9	0, 8



- Have the students look at the answers from the Statistical Survey Worksheet and create a stem and leaf plot. If the answers are not varied enough, the teacher should create a question where the students have varied answers such as, "How many pairs of shoes do you have?" or "How many hours per week do you spend talking on the phone?"

Closure:

The students show their stem and leaf plots. Some stem and leaf plots should be chosen for the almanac.