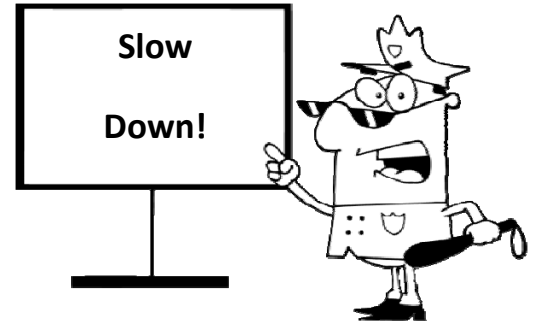Name _____   Date _____

Creating Stem and Leaf Plots – Lesson

Officer Trout was monitoring the speed of drivers in a certain stretch of highway. He was instructed by his Sergeant to record the speeds of all the drivers above the 45 mile per hour (mph) speed limit. He recorded the data below:

46 mph, 51 mph, 47 mph, 61 mph, 51 mph, 48 mph, 52 mph, 47 mph, 51 mph

Officer Trout's Sergeant would like him to display the

data as a stem plot. Help Officer Trout create the

stem and leaf plot below.

Slow

Down!

Explanation:

A stem and leaf plot helps us organize the data quickly.

Step 1 – Organize the data from least to greatest.

We will start by removing the unit mph.

46,47,47,48,51,51,51,52,61

Step 2 – Determine the value of the stems.

A stem is the front part of the number. When you are working with two-digit numbers, the first digit or the tens place is the stem.

46,47,47,48 | 51,51,51,52 | 61

We can see that we have 3 different stems- 4 (40), 5 (50), and 6 (60)

Step 3 – Plot the leaves in the stem plot.

We place the ones value of numbers in the leaf column. Each value has a single leaf.

Stem (tens place)	Leaf (ones place)
4	6, 7, 7, 8
5	1, 1, 1, 2
6	1