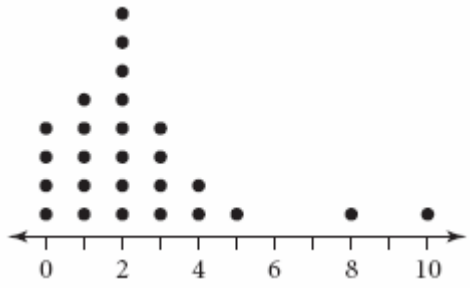
Name _____ Date ____/____/____
Algebra Mr. Towne

Sections 1.1 to 1.4 Practice

1) The graph at the right shows the number of keys the students in one math class have on their key ring.



   a. What kind of graph is it?

   b. What is the minimum number of keys on a key ring?

   c. What is the maximum number of keys on a key ring?

   d. How many of the students have less than two keys on a key ring?

   e. How many of the students have at least four keys on a key ring?

   f. Find the five-number summary of the data.

   g. Underneath the graph shown, make a box-plot of the data.

   h. There are four parts of the box-plot. What do you notice about the dots in the graph shown where the box-plot is wide?

2) The table to the right shows the average high temperatures each month in Minneapolis.

Month	Temp
Jan	22
Feb	29
Mar	41
Apr	57
May	70
Jun	79
Jul	83
Aug	80
Sep	71
Oct	58
Nov	40
Dec	26

   a. Write down the minimum and maximum values for the data.

   b. Construct a bar graph of the information. Make sure that your scale is correct.

   c. Explain the pattern in the height of the bars.

3) Find the five-number summary of the following lists of numbers. Make sure that you write the list in order before finding the summary!

   a. Easy (high temps this week): 59, 66, 74, 78, 77, 74, 70

   b. Medium:(heights of students): 168, 163, 168, 177, 174, 174, 180, 181, 157

   c. Hard: (Mr. Towne's gas usage) 13, 16, 17, 25, 48, 69, 131, 133, 104, 80, 45, 17

4) Compare Mr. Towne's gas usage last year (2006-07) (question 3c) with the data from the previous year with two box-plots on the same scale.

   Mr. Towne's gas usage (2005-2006): 11, 14, 15, 25, 47, 70, 139, 138, 103, 84, 44, 15

   a. Find the IQR for both seasons.

5) Make a stem and leaf plot of the data on the right.

   a. What is the range of grades?

   b. *Estimate* the mean of the grades and write how you determined it.

56	94	75	69
25	81	94	19
81	44	81	81
56	81	88	75
69	69	63	69
75	81	63	88
94	94	100	100
75	81	69	100
56	94		