

Chapter 6 Review

Lessons 6.6 and 6.7

Name: _____

Date: _____ Hour: _____

Skills Assessed:

I can make and use a stem-and-leaf plot.

I can find the mean, median and mode of a data set.

I can draw a box-and-whisker plot to organize real-life data.

I can read and interpret a box-and-whisker plot of real-life data.

The table shows the number of nations represented in the Winter Olympic Games from 1948 through 1994.

Year	1948	1952	1956	1960	1964	1968	1972	1976	1980	1984	1988	1992	1994
Nations	28	30	32	30	36	37	35	37	37	49	57	64	67

1) List the data above in increasing order in an ordered stem-and-leaf plot.

2) Find the mean, the median, and the mode of the collection of numbers.

mean = _____

median = _____

mode = _____

3) What number could you add to the set of data to make it have more than one mode? Explain.

4) Which measure of central tendency best represents the data? Explain.

The data to the right shows the age of actors and actresses who won the Academy Award for best actor and actress for the years 1987-1998.

Year	Actor's Age	Actress's Age
1987	33	41
1988	51	25
1989	31	80
1990	42	42
1991	54	29
1992	51	33
1993	36	35
1994	37	45
1995	31	49
1996	45	39
1997	60	34
1998	45	25

- 5) Find the first, second and third quartiles of the data listed as "Actor's Age."

first quartile _____

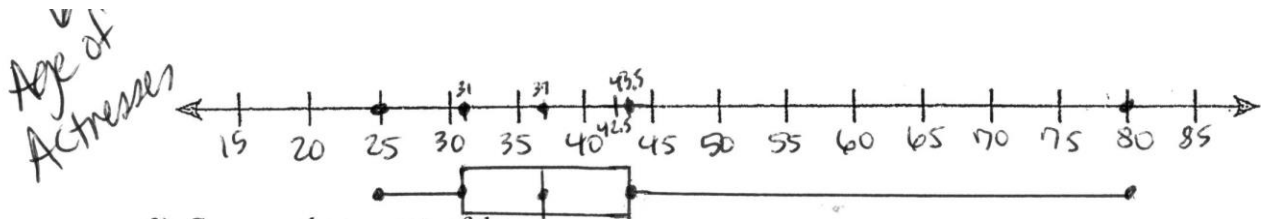
second quartile _____

third quartile _____

- 6) Draw a box-and-whisker plot of the age of the actors.



- 7) Below is a box-and-whisker plot of the age of the actresses. Compare the box-and-whisker plot you created in problem #6 to the box-and-whisker plot below.



- 8) Use the box-and-whisker plot below that shows the amount of time (in hours) that students spent studying last week. Is the following statement true. Explain.

More students studied less than 6 hours than studied more than 6 hours.

