

Worksheet 6.6 – Stem-and-Leaf Plots & Mean, Median, Mode – Textbook pages 368-374

LEVEL 1

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

1) 28, 26, 32, 48, 36, 58, 44, 25, 42, 51, 50, 41, 37, 35

2) 123, 147, 140, 156, 133, 127, 139, 150, 141, 136, 144, 159, 137, 125, 136

3) 1.5, 2.7, 0.6, 3.1, 2.2, 4.7, 4.1, 3.5, 0.9, 1.6, 3.5, 2.2, 2.6, 4.7, 1.5, 3.7, 2.9

LEVEL 2

Find the mean, the median, and the mode of the collection of numbers. Show your work.

4) 85, 90, 92, 91, 86, 90

mean = _____

median = _____

mode = _____

5) 79, 85, 143, 113, 60, 146, 99, 171

mean = _____

median = _____

mode = _____

6) 146.8, 158.4, 139.7, 147.5, 189.1, 116.1, 192.3

mean = _____

median = _____

mode = _____

LEVEL 3

The table below shows the number of inches of snow that fell on 14 towns in a 50-mile radius during a snowstorm.

<i>Town</i>	A	B	C	D	E	F	G	H	I	J	K	L	M	N
<i>Inches of Snow</i>	8	4	7	6	5	6	7	8	9	10	11	5	4	8

7) Find the mean, the median, and the mode for the set of data.

mean = _____

median = _____

mode = _____

8) If another town in the area reported 20 inches of snow, would either the mean or the median change? Explain.

LEVEL 4

The table shows the speed (in mph) of the winner of the Indianapolis 500 auto race in the years 1986-1997.

<i>Year</i>	<i>Speed</i>
1986	170.7
1987	162.2
1988	144.8
1989	167.6
1990	186.0
1991	176.5
1992	134.5
1993	157.2
1994	160.9
1995	153.6
1996	148.0
1997	145.9

9) Make an ordered stem-and-leaf plot of the set of data.

10) Find the mean, the median, and the mode for the set of data.

mean = _____

median = _____

mode = _____

11) Which measure of central tendency do you think best represents the data? Explain.