Measures of center and variation

Name_____

Date_____

Find the mode, median, mean, range, lower quartile, and upper quartile for each data set.

1) Times Winning the Basketball Tournament

Times Won	Frequency
1	10
2	3
4	1
5	2
11	1

2)   Hours Slept

5.5	7	6.75	7.75	8.5	5.75
6.5	8	8	7	8.5	8.25
6.75	7	8.75	7.5	6.5	

3)   Shoe Size

8.5	9.5	9.5	8	8.5	8	9
9	8	11	8	7.5	11	10
7.5	7.5					

4)   Hits in a Round of Hacky Sack

8	7	3	5	14	5	2	7
5	5	3	18	5	4	12	

5) Life Expectancy by Country

Stem	Leaf
4	8
5	6
6	8
7	5 5 5 6 6 6 6 7 8
8	1 1 1 2

Key: 7|5 = 75

6) Sales Tax

State	Percent	State	Percent	State	Percent	State	Percent	State	Percent
Texas	6.25	South Carolina	6	Arkansas	6.5	Maryland	6	Wyoming	4
Mississippi	7	Nebraska	5.5	Pennsylvania	6	Tennessee	7	Illinois	6.25
Oklahoma	4.5	Delaware	0	Georgia	4	California	7.5	Wisconsin	5
Virginia	4.3								

7) Shoe Size

6	8.5	7	6	7	8	8
7	8	8	7.5	6	7	9
8.5	8.5	8				

8) Age at First Job

14	17	13	17	17	17	15
13	18	15	13	17	18	16
16	17					

Answers to

1) Mode = 1, Median = 1, Mean = 2.41, Range = 10, $Q_1 = 1$ and $Q_3 = 3$

2) Mode = 7, Median = 7, Mean = 7.29, Range = 3.25, $Q_1 = 6.625$ and $Q_3 = 8.125$

3) Mode = 8, Median = 8.5, Mean = 8.78, Range = 3.5, $Q_1 = 8$ and $Q_3 = 9.5$

4) Mode = 5, Median = 5, Mean = 6.87, Range = 16, $Q_1 = 4$ and $Q_3 = 8$

5) Mode = 76, Median = 76, Mean = 73.81, Range = 34, $Q_1 = 75$ and $Q_3 = 79.5$

6) Mode = 6, Median = 6, Mean = 5.36, Range = 7.5, $Q_1 = 4.4$ and $Q_3 = 6.375$

7) Mode = 8, Median = 8, Mean = 7.53, Range = 3, $Q_1 = 7$ and $Q_3 = 8.25$

8) Mode = 17, Median = 16.5, Mean = 15.81, Range = 5, $Q_1 = 14.5$ and $Q_3 = 17$