

Unit 8: Statistics
PRE-TEST

Find the Minimum, Maximum, Range, Mean, Median, and Mode for each data set.

1.

Shoe Size					
8.5	7	8	7.5	7.5	7
10	7.5	7	8	11	10
10	8	7.5	9.5	11	

Minimum	Maximum	Range	Mean	Median	Mode

2.

Hours Slept					
7	7.25	6.75	7	6.5	6.25
5.25	8.25	7.5	8.25	6	7.25
6.25	6.25	7.5	4.75	7.75	6.5
7.25	6.25	7			

Minimum	Maximum	Range	Mean	Median	Mode

Draw a dot plot for each data set.

3.

Age at First Job

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

4.

Life Expectancy

Country	Years	Country	Years	Country	Years
Afghanistan	60	South Korea	81	Uganda	56
Eritrea	62	Turkmenistan	67	Congo (DRC)	50
Guinea-Bissau	50	Bangladesh	70	Iraq	69
Nicaragua	75	Mexico	77	Cyprus	81
Romania	74	Moldova	71		
Benin	59	Antigua & Barbuda	59		

Draw a stem-and-leaf plot for each data set.

5.

Single Family Home Prices

\$470,500	\$474,200	\$450,800	\$460,700	\$467,600	\$468,000
\$453,600	\$455,000	\$505,100	\$462,900	\$475,500	\$478,800
\$487,700	\$476,900	\$475,600			

6.

Basketball Tournament

School	Appearances	School	Appearances
Utah State	20	Hampton	5
North Carolina	46	Cal State Northridge	2
Kansas State	28	Butler	13
Central Connecticut State	3	Santa Clara	11
Drake	4	Colorado	13
Campbell	1	Columbia	3
Portland	2	Trinity	1
Canisius	4	Wake Forest	22

Draw a histogram for each data set.

7.

Hours Slept

5.5	6	4.75	6.75	9	6.75
7.75	5.5	6.25	6.5	7	6.5
7	8	8.25			

8.

Sales Tax

State	Percent	State	Percent
Mississippi	7	Alabama	4
Georgia	4	Utah	4.7
Delaware	0	Arkansas	6.5
Illinois	6.25	Nebraska	5.5
Rhode Island	7	Connecticut	6.35
West Virginia	6	Hawaii	4
New Hampshire	0	Wisconsin	5
South Carolina	6		

Draw a box-and-whisker plot for each data set.

9.

Words in Book Titles

3	5	2	1	1	3
4	1	3	1	3	6
1	1	5	2		

10.

Life Expectancy

State	Years	State	Years
Oregon	82	New York	82.5
District of Columbia	77.9	Texas	80.3
Wyoming	78.4	Montana	74.1
Ohio	81	Louisiana	78.2
Oklahoma	78.2	Iowa	79.8
Arkansas	74.2	New Hampshire	80.1
South Carolina	78.3	Pennsylvania	81.6
Delaware	77	Idaho	81.4
Arizona	79.3		

