

48

Unit 8: Statistics
POST TEST – Version A

Find the Minimum, Maximum, Range, Mean, Median, and Mode for each data set. (6pts each)

1.

Men's Heights					
183	175	180	179	181	176
176	173	178	183	169	178
179	168	176	181		

168, 169, 173, 175, 176, 176, 176, 178, 178, 179, 179, 180, 181, 181, 183, 183

Minimum	Maximum	Range	Mean	Median	Mode
168	183	15	177.19	178	176

2.

Hours Slept					
5	7.25	8	7	8.25	4.25
6	8.25	8.5	6.5	6.5	6
8.75	7.5	7.25	7.25	6.25	8.75
7.75	8.75	7.25			

4.25, 5, 6, 6, 6.25, 6.5, 6.5, 7, 7.25, 7.25, 7.25, 7.25, 7.5, 7.75, 8, 8.25, 8.25, 8.5, 8.75, 8.75, 8.75

Minimum	Maximum	Range	Mean	Median	Mode
4.25	8.75	4.5	7.19	7.25	7.25

Draw a stem-and-leaf plot for each data set. (3 pts each)

5.

Single Family Home Prices

\$541,300	\$562,100	\$557,700	\$577,500	\$529,900	\$554,000
\$547,500	\$535,000	\$540,500	\$570,600	\$552,100	\$534,200
\$544,300	\$563,100	\$547,200			

- ✓ 541,000
- ✓ 548,000
- ✓ 544,000
- ✓ 562,000
- ✓ 535,000
- ✓ 563,000
- ✓ 558,000
- ✓ 541,000
- ✓ 547,000
- 578,000
- 571,000
- ✓ 530,000
- ✓ 552,000
- ✓ 554,000
- ✓ 534,000

Stem	Leaf
53	0, 4, 5
54	1, 1, 4, 7, 8
55	2, 4, 8
56	2, 3
57	1, 8

Key 53|0 = \$530,000

6.

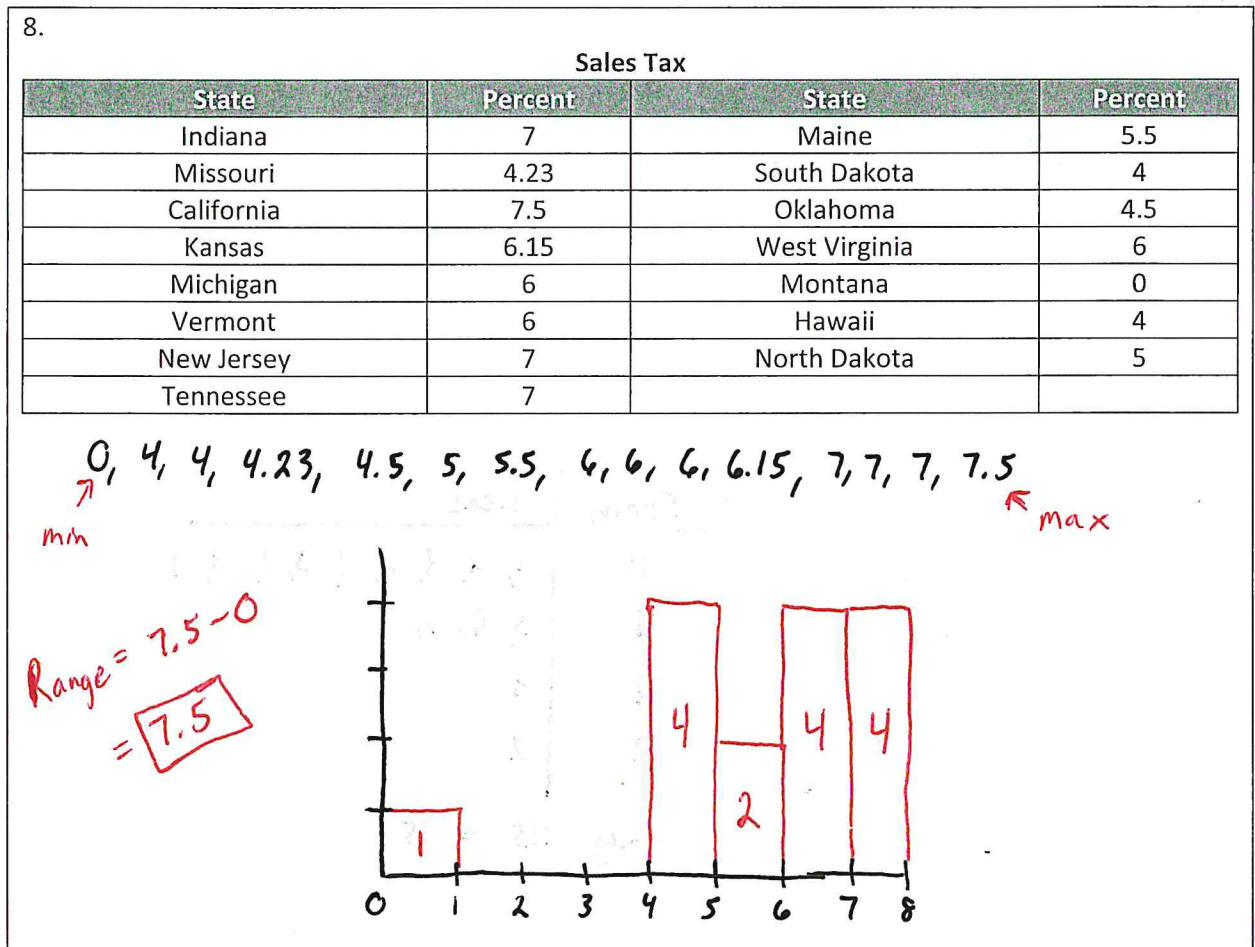
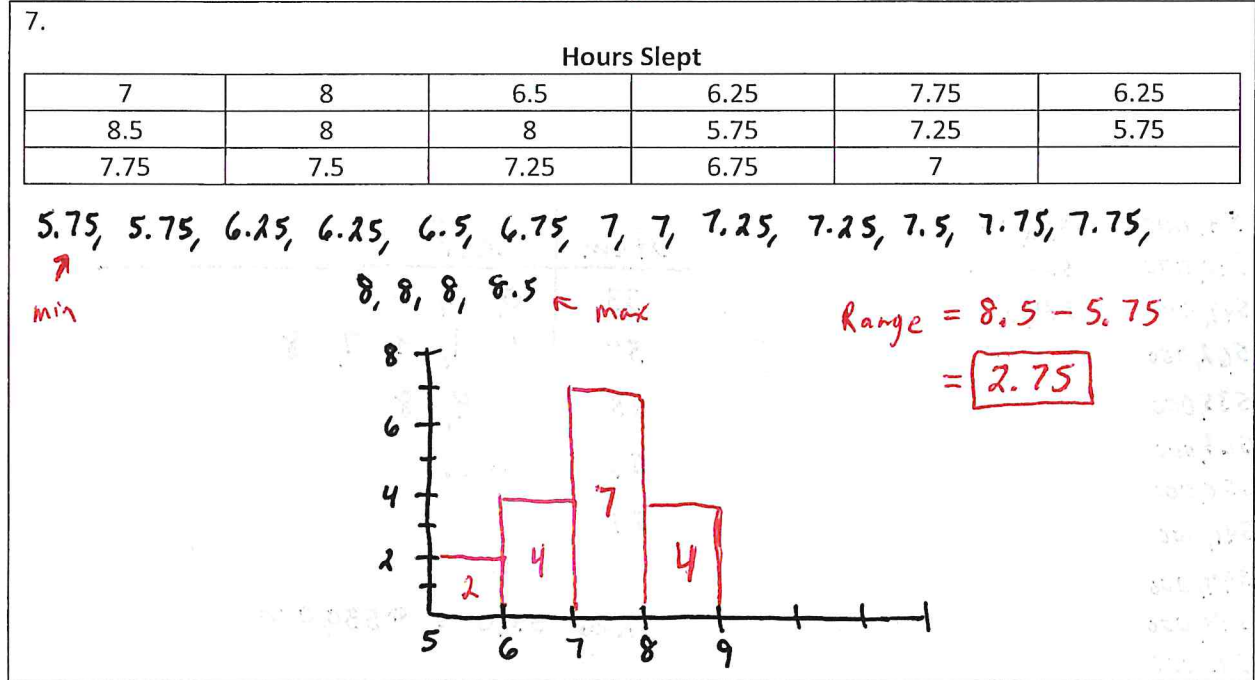
Basketball Tournament

School	Appearances	School	Appearances
American	3	Portland	2
Sam Houston State	2	Alabama	19
South Alabama	8	Maryland	24
Wright State	2	Yale	3
Penn State	9	Texas	32
Campbell	1	Georgia Tech	16
Wyoming	15	Washington	16
UNC Greensboro	2		

Stem	Leaf
0	1, 2, 2, 2, 2, 3, 3, 8, 9
1	5, 6, 6, 9
2	4
3	2

Key 1|5 = 15

Draw a histogram for each data set. (4 each)



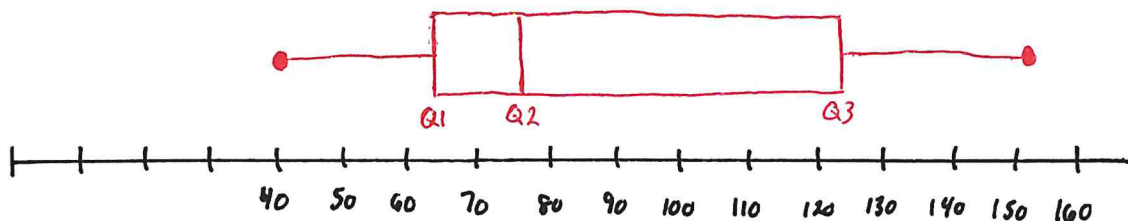
Draw a box-and-whisker plot for each data set. (7 pts each)

9.

Annual Precipitation (Centimeters)

70	81	65	64	122	122
65	86	151	51	60	123
146	124	40	60		

40, 51, 60, 60, 64, 65, 65, 70, 81, 86, 122, 122, 123, 124, 146, 151
 ↑ min Q1 = 62 Q2 = 75.5 Q3 = 122.5 ↑ max
 IQR = 60.5



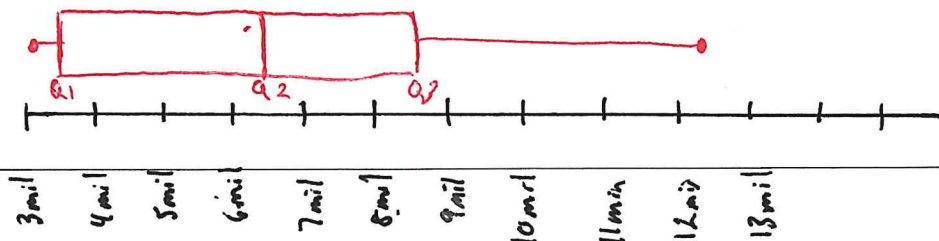
10.

Large Cities

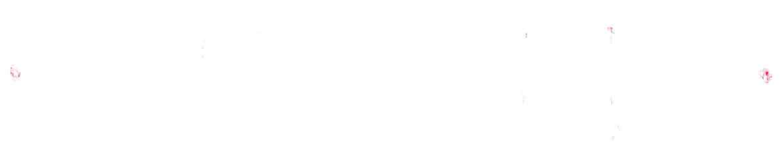
City	Population	City	Population
Shenyang	3,717,098	Delhi	11,007,835
London	8,416,535	Dar es Salaam	4,364,541
Luanda	6,542,944	Nairobi	3,138,369
Bengaluru	8,425,970	Wuhan	6,886,253
Los Angeles	3,884,307	Moscow	12,111,194
Dongguan	8,220,207	Hangzhou	3,560,391
Mexico City	8,874,724	Jeddah	3,456,259
Ekurhuleni	3,178,470	Seoul	10,388,055
Changsha	3,093,980		

3093980, 3138369, 3178470, 3456259, 3560391, 3717098, 3884307, 4364541
 ↑ min Q1 = 3508325 IQR = 5,142,022
 6542944 Q2

6886253, 8220207, 8416535, 8425970, 8874724, 10388055, 11007835, 12111194
 Q3 = 8650347 ↑ max



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