

Unit 8: Statistics
POST TEST – Version A

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

1.

Men's Heights

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

Minimum

Maximum

Range

Mean

Median

Mode

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			

Minimum

Maximum

Range

Mean

Median

Mode

Draw a dot plot for each data set.

3.

Men's Heights (Inches)

66	69	66	72	71	63
73	67	64	68	71	70
66	66	75			

4.

Life Expectancy

Movie	# Awards	Movie	# Awards	Movie	# Awards
12 Years a Slave	3	Rebecca	2	Amadeus	8
The French Connection	5	The Life of Emile Zola	3	All About Eve	6
The Best Years of Our Lives	7	A Beautiful Mind	4	Casablanca	3
American Beauty	5	Rocky	3	The English Patient	9
Grand Hotel	1	My Fair Lady	8	The Departed	4

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

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			

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		

Draw a histogram for each data set.

7.

Hours Slept

7	8	6.5	6.25	7.75	6.25
8.5	8	8	5.75	7.25	5.75
7.75	7.5	7.25	6.75	7	

8.

Sales Tax

State	Percent	State	Percent
Indiana	7	Maine	5.5
Missouri	4.23	South Dakota	4
California	7.5	Oklahoma	4.5
Kansas	6.15	West Virginia	6
Michigan	6	Montana	0
Vermont	6	Hawaii	4
New Jersey	7	North Dakota	5
Tennessee	7		

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

9.

Annual Precipitation (Centimeters)

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

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		

Unit 8: Statistics
POST TEST – Version B

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

1.

Hits in a Round of Hacky Sack

5	10	8	12	10	8
12	5	7	8	22	12
6	8	20	1		

Minimum

Maximum

Range

Mean

Median

Mode

2.

Test Scores

36	57	40	49	53	53
50	49	52	45	48	47
54	53	48	49	48	54
42	54	54	50		

Minimum

Maximum

Range

Mean

Median

Mode

Draw a dot plot for each data set.

3.

Age at First Job

13	15	17	17	16	13
15	11	15	22	16	19
13	12	15			

4.

Basketball Tournament Champions

School	Time Won	School	Time Won
Stanford	1	Michigan State	2
Marquette	1	Arizona	1
Michigan	1	Loyola-Chicago	1
North Carolina	2	Kentucky	8
Georgetown	1	Villanova	1
Wyoming	1	Duke	5
California	1	San Francisco	2
Ohio State	1	Connecticut	4
Oregon	1		

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

5.

Single Family Home Prices

\$116,200	\$110,200	\$140,700	\$139,400	\$114,600	\$118,300
\$117,600	\$130,900	\$112,000	\$136,000	\$113,500	\$118,300
\$95,200	\$135,300	\$120,000			

6.

Per Capita Income

Country	US Dollars	Country	US Dollars	Country	US Dollars
Austria	44,149	Armenia	7,774	Barbados	15,566
Dominica	10,030	The Bahamas	23,102	Puerto Rico	34,744
Solomon Islands	2,068	Moldova	4,669	Benin	1,791
Cape Verde	6,412	Turkmenistan	14,001	Israel	32,760
Macedonia	11,802	Nicaragua	4,571	Micronesia	3,558
Yemen	3,958				

Draw a histogram for each data set.

7.

Annual Household Income

\$23,700	\$10,850	\$45,550	\$19,000	\$9,700	\$23,950
\$7,350	\$11,750	\$40,850	\$5,500	\$17,250	\$33,250
\$32,300	\$22,350	\$9,250	\$25,300		

8.

Sales Tax

State	Percent	State	Percent
Colorado	2.9	Ohio	5.75
Florida	6	Connecticut	6.35
Georgia	4	Nebraska	5.5
California	7.5	New York	4
Michigan	6	South Dakota	4
Pennsylvania	6	Illinois	6.25
Texas	6.25	Arkansas	6.5
Delaware	0	Maryland	6

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

9.

Men's Heights (Centimeters)

176	166	169	177	178	175
176	175	185	173	176	174
181	178	182	178	177	

10.

Large US Cities

City	Population	City	Population
Oakland	390,724	Houston	2,100,263
St. Louis	319,294	Stockton	291,707
Milwaukee	594,833	Irvine	212,375
Columbus	787,033	Raleigh	403,892
Memphis	646,889	Gilbert	208,453
Sacramento	466,488	Charlotte	731,424
Lexington	295,803	Richmond	204,214
Aurora	325,078	Boise	205,671

Unit 8: Statistics
POST TEST – Version C

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

1.

Hours Slept					
6.75	7	7	6.5	7.5	6.5
6.25	9.75	7.5	6.5	8.5	5.75
6.75	5.75	7.5	8.5		

Minimum	Maximum	Range	Mean	Median	Mode

2.

Annual Household Income					
\$14,400	\$10,800	\$18,050	\$14,100	\$29,650	\$20,200
\$8,900	\$12,600	\$10,800	\$24,650	\$19,900	\$7,600
\$14,150	\$34,050	\$11,150	\$11,950	\$11,550	\$19,750
\$36,750	\$22,900	\$8,450	\$34,700	\$20,850	

Minimum	Maximum	Range	Mean	Median	Mode

Draw a dot plot for each data set.

3.

Shoe Size

8	10	9	8	7	10
10	8	4	8	8	8
9	9	9	11	9	

4.

Basketball Tournament Champions

School	Time Won	School	Time Won
Ohio State	1	UCLA	11
Holy Cross	1	La Salle	1
Wyoming	1	Marquette	1
Duke	5	Oklahoma State	2
Wisconsin	1	North Carolina	5
North Carolina State	2	San Francisco	2
Michigan State	2	Kentucky	8
Stanford	1		

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

5.

Monthly Revenue

\$56,590	\$36,590	\$42,310	\$34,110	\$35,170	\$36,140
\$31,770	\$47,150	\$33,740	\$17,940	\$40,060	\$18,370
\$24,860	\$42,150	\$43,280	\$58,860		

6.

Boiling Point

Substance	°C	Substance	°C	Substance	°C
Carbon	4,827	Silver	2,162	Tin	2,603
Methanol	64.7	Sea Water	100.7	Platinum	3,825
Copper	2,562	Cobalt	2,870	Phosphorus	280.5
Magnesium	1,091	Potassium	758.8	Mercury	356.7
Plutonium	3,232	Sulphur	444.7	Silicon	2,357
		Iodine	184.3		

Draw a histogram for each data set.

7.

Car Weights (lb)

2,560	2,395	2,710	2,680	3,835	3,265
3,765	3,025	3,320	2,440	2,575	3,660
2,755	2,380	3,425	2,235		

8.

Boiling Point

Substance	°C	Substance	°C	Substance	°C
Lead	1,750	Potassium	758.8	Calcium	1,484
Sea Water	100.7	Aluminum	2,519	Titanium	3,287
Nitric Acid	83	Carbon	4,827	Glycerol	290
Platinum	3,825	Gold	2,856	Plutonium	3,232
Ethanol	78.4	Mercury	356.7	Sodium	882.8
		Silicon	2,357		

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

9.

Car Weights (lb)

2,735	3,125	3,135	3,915	3,490	3,035
3,305	3,460	3,200	2,395	1,855	2,425
3,615	3,475	2,185	3,505		

10.

Life Expectancy

Country	Years	Country	Years
Kenya	60	Trinidad & Tobago	74.8
Guatemala	71.5	Ecuador	76
Sweden	83	Mexico	77.2
Greece	81	Spain	82.5
Haiti	63	Pakistan	67
Hungary	75	Norway	81.9
Cameroon	61.5	Romania	74
Marshall Islands	73.5	Ireland	81.4