

## Assignment

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

## 1) Monthly Revenue

Stem	Leaf
2	0 6
3	1 2 5 6 6 8 9
4	1 6 7
5	2 8
6	
7	7

Key: 3|6 = 36,000

## 2)

## Large Cities

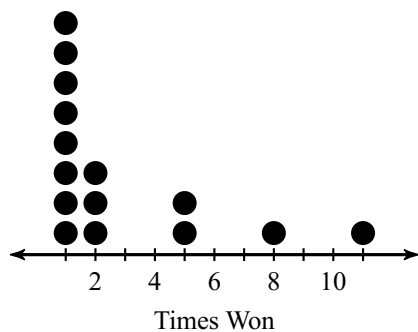
City	Population
Nairobi	3,138,369
Suzhou	4,327,066
Alexandria	4,616,625
Abidjan	4,765,000
Chennai	4,792,949

City	Population
St. Petersburg	5,131,967
Santiago	5,743,719
Foshan	6,151,622
Rio de Janeiro	6,429,923

City	Population
Hanoi	6,844,100
Ho Chi Minh City	7,681,700
Bangkok	8,280,925
New York City	8,405,837

City	Population
Shenzhen	10,467,400
Lagos	17,060,307
Beijing	21,150,000
Karachi	23,500,000

## 3) Times Winning the Basketball Tournament



4)

## Mountain Heights

Name	Feet
Lupghar Sar	23,622
Siguang Ri	23,980
Labuche Kang	24,170
Sherpi Kangri	24,213

Name	Feet
Churen Himal	24,229
Yangra	24,350
Gangapurna	24,459
Teram Kangri I	24,482

Name	Feet
Saser Kangri III	24,590
Kula Kangri	24,731
Changtse	24,747
Gongga Shan	24,790

Name	Feet
Shispare	24,970
Saser KangriI	25,171
Khunyang Chhish	25,666

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

5)

## Melting Point

Substance	°C
Potassium	63.4
Phosphorus	44.2
Tin	231.9
Argon	189.2
Magnesium	650
Radium	699.8
Titanium	1,668
Carbon	3,550

Substance	°C
Cobalt	1,495
Nickel	1,455
Calcium	842
Uranium	1,132
Iodine	113.7
Water	0
Sulphur	115.2

6)

## Monthly Revenue

42,470	43,030	47,380	33,890
34,520	29,130	41,070	32,460
52,350	42,290	24,830	60,610
47,490	58,610	42,670	

## 7) Annual Household Income

13,450	24,450	22,150	12,400
31,500	12,450	8,900	11,150
27,800	40,600	38,700	23,350
10,100	24,150	30,650	13,800

## 8) Annual Precipitation (Inches)

31.6	27.6	57	15.2	61
39.6	22.2	61.4	30	41.2
44.6	26.2	23	59.2	43.4
52				

## 9) Basketball Tournament

School	Appearances
Minnesota	8
Nevada	6
Mississippi	8
UC Irvine	1
Norfolk State	1
Rice	4

School	Appearances
Virginia Tech	8
Texas Southern	6
Syracuse	37
VMI	3
Yale	3

School	Appearances
Alcorn State	6
Montana State	3
Kansas	44
Indiana State	4
Loyola-Chicago	5

10) Annual Household Income

22,750	13,950	12,850	17,300
15,000	28,650	19,250	14,000
11,050	14,650	37,400	7,350
28,650	25,700	8,850	24,850

## Answers to Assignment

- 1) Median = 38,000,  
Mean = 40,933.33,  
Range = 57,000,  $Q_1 = 32,000$ ,  
 $Q_3 = 47,000$  and IQR = 15,000
- 2) Median = 6,429,923, Mean = 8,734,559.35, Range = 20,361,631,  $Q_1 = 4,778,974.5$ ,  
 $Q_3 = 9,436,618.5$  and IQR = 4,657,644
- 3) Median = 1, Mean = 2.87, Range = 10,  
 $Q_1 = 1$ ,  $Q_3 = 5$  and IQR = 4
- 4) Median = 24,482, Mean = 24,544.67, Range = 2,044,  $Q_1 = 24,213$ ,  $Q_3 = 24,790$  and  
IQR = 577

5)

Stem	Leaf
0	0 0 1 1 1 2 2 7 7 8
1	1 5 5 7
2	
3	6

Key: 1|5 = 1,500

6)

Stem	Leaf
2	5 9
3	2 4 5
4	1 2 2 3 3 7 7
5	2 9
6	1

Key: 4|1 = 41,000

7)

Stem	Leaf
0	9
1	0 1 2 2 3 4
2	2 3 4 4 8
3	1 2 9
4	1

Key: 1|3 = 13,000

8)

Stem	Leaf
1	5
2	2 3 6 8
3	0 2
4	0 1 3 5
5	2 7 9
6	1 1

Key: 3|2 = 32

9)

Stem	Leaf
0	1 1 3 3 3 4 4 5 6 6 6 8 8 8
1	
2	
3	7
4	4

Key: 3|7 = 37

10)

Stem	Leaf
0	7 9
1	1 3 4 4 5 5 7 9
2	3 5 6 9 9
3	7

Key: 1|4 = 14,000