

Find the mean, median, mode, range, and quartiles for each data set.

1. 13, 13, 10, 8, 7, 6, 4, 5, 14, 12, 4, 2, 9, 8, 8, 12

Mean: _____ Q1: _____

Median (Q2): _____ Q3: _____

Mode: _____

Range: _____

2. 20, 30, 35, 24, 36, 47, 48, 50, 23, 21, 23, 36

Mean: _____ Q1: _____

Median (Q2): _____ Q3: _____

Mode: _____

Range: _____

3. 2, 5, 4, 1, 6, 7, 4, 3, 2, 1, 1, 3, 4, 3, 2

Mean: _____ Q1: _____

Median (Q2): _____ Q3: _____

Mode: _____

Range: _____

4. 130, 140, 135, 125, 160, 175, 123, 131, 130, 155, 161

Mean: _____ Q1: _____

Median (Q2): _____ Q3: _____

Mode: _____

Range: _____

Number of Hours Spent Sleeping at Night

5	8	6	7	4
9	8	7	5	9
8	10	7	7	8
6	8	8	7	8
9	8	7	5	9
10	7	8	8	6

5. Find the following for the data:

Mean: _____ Q1: _____

Median (Q2): _____ Q3: _____

Mode: _____

Range: _____

6. Which measure of central tendency do you think gives the best indication of the number of hours the "typical" person spends sleeping each night? Explain.

7. Suppose another person was surveyed who said that he spends 3 hours sleeping at night. How would this affect the mean, median, mode and range?

8. Ms. McNally determined the quarter grades for her Junior-Algebra 2 class. She changed all the grades below 55 to a 55. The original list was: 40, 92, 45, 88, 55, 82, 63, 83, 65, 77, 66, 71, 67.

(a) Find Quartile 1, the Median, Quartile 3, and the Mean for the original data set.

(b) What is the new data set after the grades were changed?

(c) Find Quartile 1, the Median, Quartile 3, and the Mean for the new data set.

(d) Which of the measures in the Five Number Summary changed?

Find the mean, median, mode, range, and quartiles for each data set.

1. ~~2, 4, 5, 6, 8, 8, 10, 12, 12, 14, 21, 11~~
 13, 13, 10, 8, 7, 6, 4, 5, 14, 12, 4, 7, 9, 8, 8, 12

Mean: 8.4 Q1: 5.5

Median (Q2): 8 Q3: 12

Mode: 8

Range: 12 37.5

2. ~~20, 21, 23, 23, 24, 30, 35, 36, 40, 47, 48, 50~~
 20, 30, 35, 24, 36, 47, 48, 50, 23, 21, 23, 38

Mean: 32.75 Q1: 22.5

Median (Q2): 32.5 Q3: 41.5

Mode: 30

Range: 30

3. ~~2, 5, 4, 1, 6, 7, 4, 3, 2, 1, 1, 3, 4, 3, 2~~

~~XXX 2 2 X (3) X X X 5 6 X~~

Mean: 3.2 Q1: 2

Median (Q2): 3 Q3: 4

Mode: 1, 2, 3, 4

Range: 6

4. ~~130, 140, 135, 125, 160, 175, 123, 131, 130, 155, 161~~

~~123, 125, 130, 130, 131, (35), 140, 145, 160~~

Mean: 142.27 Q1: 130

Median (Q2): 125 Q3: 160

Mode: 130

Range: 52

