

CCGPS Coordinate Algebra
Measures of Central Tendency

Name: Answer Key
Date: _____ Block: _____

Use the data set below to answer the following questions:

5, 2, 9, 10, 3, 7, 2, 18, 12, 15, 1, 6, 9, 5, 2, 7

In order: 1, 2, 2, 2, 3, 5, 5, 6, 7, 7, 9, 9, 10, 12, 15, 18

<p>1.) Find the mean.</p> $\frac{113}{16} = 7.06$ <p>sum # of terms</p>	<p>2.) Find the median (Q2). (middle)</p> $\frac{6+7}{2} = 6.5$	<p>3.) Find the mode. most used</p> $\text{mode} = 2$
<p>4.) Find the range.</p> <p>max - min =</p> $18 - 1 = 17$	<p>5.) Find Q1.</p> <p>1, 2, 2, 2, 3, 5, 5, 6</p> <p>Q1</p> $\frac{2+3}{2} = 2.5$	<p>6.) Find Q3.</p> <p>7, 7, 9, 9, 10, 12, 15, 18</p> <p>Q3</p> $\frac{9+10}{2} = 9.5$
<p>7.) Find the IQR.</p> <p>change between</p> $Q3 - Q1$ $9.5 - 2.5 = 7$		

Measures of Central Tendency			
Mean, \bar{X} The average	Median, or Quartile The middle number when the data is written in order	Mode The data value that appears the most	Range The difference between the greatest value and the least value
Upper Quartile The median of the upper half of an ordered set of data		Lower Quartile The median of the lower half of an ordered set of data	Interquartile Range The difference between the upper quartile and the lower quartile

1) 5, 9, 3, 6, 12, 10, 8, 7, 12

a) Put the data in order

b) Mean?

c) Median?

d) Mode?

e) Range?

f) Upper Quartile?

g) Lower Quartile?

h) Interquartile Range?

2) 11, 16, 18, 27, 20, 10, 14, 10, 17, 12

a) Put the data in order

b) Mean?

c) Median?

d) Mode?

e) Range?

f) Upper Quartile?

g) Lower Quartile?

h) Interquartile Range?