Name: Bloo	k:
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- <u>CCSS</u>: 6.NS.2 and 6.SP.5.C
- Learning Objective: Mean, Median, Mode, and Range

Academic Vocabulary:

- Lower Quartile
- Upper Quartile
- Interquartile Range
- Minimum
- Maximum
- Outlier

Examples:

1. Median (Q ₂)	2. Lower Quartile (Q ₁)
Data Set = 2, 5, 13, 3, 7, 5, 4, 7 Reordered = 2, 3, 4, 5, 5, 7, 7, 13	Data Set = 2, 5, 13, 3, 7, 5, 4, 7 Reordered = 2, 3, 4, 5, 5, 7, 7, 13
Median = $(5 + 5) \div 2 = 5$	Find median of the lower half of numbers.
·	New Data Set = 2,3,4,5
	Median = $(3 + 4) \div 2 = 3.5$
	Lower Quartile = 3.5
3. Upper Quartile (Q ₃)	4. Interquartile Range
Data Set = 2, 5, 13, 3, 7, 5, 4, 7 Reordered = 2, 3, 4, 5, 5, 7, 7, 13	Find the range between the upper quartile (Q ₃) and lower quartile (Q ₁).
Find median of the upper half of numbers.	Data Set = 2, 5, 13, 3, 7, 5, 4, 7 Reordered = 2, 3, 4, 5, 5, 7, 7, 13
New Data Set = 5,7,7,13	Lower Quartile = 3.5 Upper Quartile = 7
Median = $(7 + 7) \div 2 = 7$	
Upper Quartile = 7	Interquartile Range = $(7 - 3.5) = 3.5$
5. Minimum	6. Maximum
Data Set = 2, 5, 13, 3, 7, 5, 4, 7 Reordered = 2, 3, 4, 5, 5, 7, 7, 13	Data Set = 2, 5, 13, 3, 7, 5, 4, 7 Reordered = 2, 3, 4, 5, 5, 7, 7, 13
The smallest number in a data set. Minimum = 2	The largest number in a data set. Maximum = 13
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1. Mean	2. Median
Step 1: Find the sum of the data set. Step 2: Count the # of elements in data set. Step 3: Divide the sum by the # of elements.	Step 1: Put #'s in order from least to greatest. Step 2: Find the number in the middle. Step 3: If 2 #'s in middle, find the mean of the 2 #'s.
3. Mode	4. Range
Step 1: The number that occurs the most.	Step 1: Find the largest number. Step 2: Find the smallest number. Step 3: Subtract the smallest from the largest.

Practice:

1. Michael scored 93, 85, 77, 84, 85, 70, 66, and 64 on his test this year. Find his mean, median, mode, and range for his test scores. If you could choose what his final grade will be at the end of the semester by using the mean, median, or mode, what would you choose and justify why?

Justification:	
