Mean, Median, Mode, and Range

Mean: add all of the numbers in the data set together and divide by the number of numbers contained in the data set

Data Set = 2, 5, 8, 3, 5, 4
Number of Elements in Data Set = 6
Mean = (2 + 5 + 8 + 3 + 5 + 4) ÷ 6 = 27 ÷ 6 = 4.5

Median: first reorder the data set from the smallest to the largest then the number in the middle of the data set, if there are two number in the middle add them together and divide by two

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Odd Number of Elements
Data Set = 2, 3, 9, 3, 5, 4, 7
Reordered = 2, 3, 3, **4**, 5, 7, 9
Median = 4

Even Number of Elements
Data Set = 2, 5, 9, 3, 5, 4
Reordered = 2, 3, **4**, **5**, 5, 9
Median = (4 + 5) ÷ 2 = 4.5

Mode: is the number that occurs the most often in the data set

Data Set = **2**, 5, **2**, 5, **2**, 4, 7
Modes = 2

Range: is the difference between the largest value and smallest value contained in the data set

Data Set = 2, 5, 13, 3, 7, 5, 4, 7
Reordered = 2, 3, 4, 5, 5, 7, 7, 13
Range = (13 - 2) = 11