

April 29, 2015 5th
6th



**HE FOLLOWED ME HOME.
CAN I KEEP HIM?**

Jokerman

4/29 - Mean, Median, Mode, Range, Quartiles and Interquartile Range

Definitions / how to find each:

<p>Mean Add all the #'s then \div by how many #'s there are. <u>"Average"</u></p>	<p>Median the <u>middle #</u> in an ordered list</p>	<p>Mode the # that occurs the <u>most</u></p>
<p>Range Largest # minus the smallest #</p>	<p>Quartiles The #'s that divide your data into 4 equal parts</p>	<p>Interquartile Range $Q3 - Q1$</p>

First, you need some data!

Shoe size of the boys in class

7	5½	8	8	11
9	9	9½	8	8
10	11	12	10	7½
7½	(16 total)			

Mean	8.6
Median	8
Mode	8
Range	12 - 5½ = 6.5
Quartile 1	7.5
Quartile 2	8
Quartile 3	9.75
Interquartile Range	9.75 - 7.5 = 2.25

$$5\frac{1}{2} + 6 + 7 + 7\frac{1}{2} + 7\frac{1}{2} + 8 + 8 + 8 + 8 + 9 + 9 + 9\frac{1}{2} + 10 + 11 + 11 + 12 = 137$$

Mean: $\frac{137}{16} = 8.562$

Quantile 1 = 7.5
 Median = 8
 Quantile 2 = 8
 Quantile 3 = 9.75

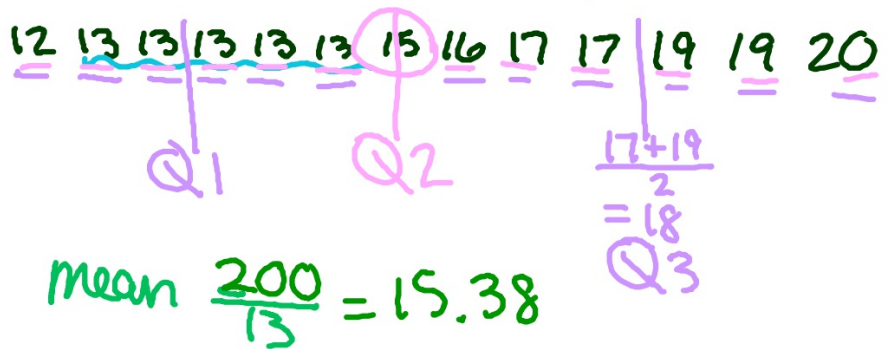
Another one:

Age of the oldest kid in your family.

Mean	15.4
Median	15
Mode	13
20-12 Range	8
Quartile 1	13
Quartile 2	15
Quartile 3	18
Interquartile Range	5

18-13

15	13	13	17	12
16	19	13	17	11
15	19	20		
	(13 total)			

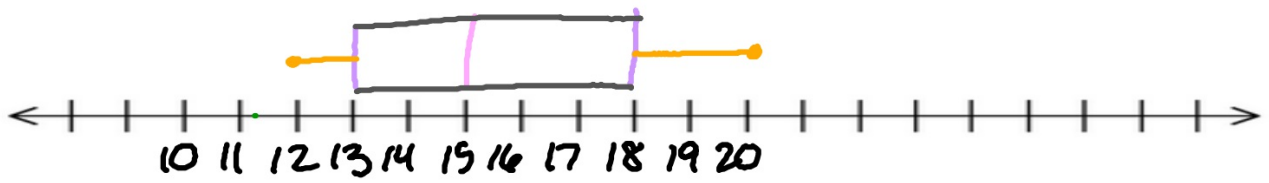


Now, make a box-and-whisker graph with the results



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Quartile 3	9.75
Interquartile Range	2.25

$$9.75 - 7.5$$



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Median	15
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20-12 Range	8
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18-13

Homework

Due