

## HOW TO CALCULATE THE UPPER QUARTILE

1 Hi, my name is Julia and I'm going to show you  
2 how to calculate the upper quartile  
3 using the median and mean values.  
4 So let's put up a set of numbers like  
5 1, 2, 4, 6, 7, 8, 10, 12 and maybe 15.  
6 Now the quartiles divide your set of numbers  
7 into four parts so they are going to be three quartiles,  
8 one that finds the middle point  
9 and then a lower quartile divides the first half into two,  
10 upper quartile divides the second half into two.  
11 So in order to find the upper quartile  
12 we first need to find the middle quartile  
13 and we first look to see if there is a median,  
14 just a number in the middle and we do.  
15 We have 7 here is in the middle  
16 so that is our middle quartile.  
17 And then, we have to find the median of these upper four numbers.  
18 Now because we have an even amount of numbers here,  
19 meaning there is no number that's going to fall right in the middle  
20 we have to take the two middle numbers and average them  
21 or find the mean of them.  
22 So we look at 10 and 12 and the mean of 10 and 12 is 11.  
23 So there you have it, 11 is the upper quartile of this set of numbers.  
24 So my name is Julia and I just showed you  
25 how to find the upper quartile  
26 using both median and the mean in a set of numbers. Thank you.