6th Grade Mathematics Mr. Wong

Box and Whiskers Median (Q₂)

Is the number in the middle or the average of the two numbers in the middle of a set of data listed from smallest to largest.

Box and Whiskers Lower Quartile (Q_1) Is the number in the middle or the average of the two numbers in the middle of the lower 50% of a set of data.

Box and Whiskers Upper Quartile (Q_3) Is the number in the middle or the average of the two numbers in the middle of the upper 50% of a set of data.

Given the set of data from the stem and leaf table, find the median, lower quartile, upper quartile, and draw a box and whiskers graph.



stem leaf First put the numbers in the order from 0113 1 smallest to the largest. 2 247 10,11,11,13,22,24,27,31,33,39 3 139 To find the median, find the number in the middle. Two numbers are in the middle, so we must find the average of 22 and 24. 22 + 24 = 46 then 46/2 = 23The median (Q_2) is 23.

stemleaf10 1 1 322 4 731 3 9

lower 50% 10,11,11,13,22 0,

To find the lower quartile, find the number in the middle of the lower 50% set of the data.

The lower quartile (Q_1) is 11.

	leaf	stem
10,11,	0113	1
	247	2
	139	3
To find number in		
The up		

upper 50% 10,11,11,13,22,24,27,31,33,39

To find the upper quartile, find the number in the middle of the upper 50% set of the data.

The upper quartile (Q_3) is 31.



Given the set of data, find the median, lower quartile, upper quartile, and make a box and whiskers graph.

67,69,71,72,74,77,82,87,88

First put the numbers in the order from smallest to the largest.



To find the median, find the number in the middle. The median (Q_2) 18 74.

lower 50% 67,69,71,72,74,77,82,87,88

To find the lower quartile, find the number in the middle of the lower 50% set of the data. Two numbers are in the middle, so we must find the average of 69 and 71. 69 + 71 = 140, then 140/2 = 70The lower quartile (Q₁) is 70.

upper 50% 67,69,71,72,74,77,82,87,88

To find the upper quartile, find the number in the middle of the upper 50% set of the data.
Two numbers are in the middle, so we must find the average of 82 and 87.
82 + 87 = 169, then 169/2 = 84.5
The upper quartile (Q₃) is 84.5.

