Box & Whiskers Plots

<u> Box-and-Whisker Plots</u>

A **box-and-whisker** plot displays data along a number line. Quartiles are used to divide the data into four equal parts. Each quartile is 25% of the number of items. The upper and lower quartiles, representing 50% of the data, form the box. The upper extreme (highest value) and lower extreme (lowest value) form the whiskers.

This box-and-whisker plot represents the following data: 12, 13, 14, 14, 15, 16, 17, 18, 19, 19, 21



Upper Extreme: Lower Extreme: Middle Quartile (median): Upper Quartile (median of upper half): Lower Quartile (median of lower half): Use the box-and-whisker plots below to answer the following questions.



Draw a box and whiskers plot for the following problems:

1) 2, 3, 6, 7, 6, 4, 8

2) 3, 7, 2, 10, 12, 5



3) 23, 27, 34, 40, 42, 45, 52, 56, 62, 68, 83, 90



4) 71, 50, 66, 71, 65, 60, 70, 71, 68, 57, 71, 53, 85, 71



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This box-and-whisker plot represents the following data: 12, 13, 14, 14, 15, 16, 17, 18, 19, 19, 21



Upper Extreme: 21 Lower Extreme: 12 Middle Quartile (median): 16 Upper Quartile (median of upper half): **19** Lower Quartile (median of lower half): **14** Use the box-and-whisker plots below to answer the following questions.



Draw a box and whiskers plot for the following problems:

 1)
 2, 3, 6, 7, 6, 4, 8

 2, 3, 4, 6, 6, 7



3) 23, 27, 34, 40, 42, 45, 52, 56, 62, 68, 83, 90



4) 71, 50, 66, 71, 65, 60, 70, 71, 68, 57, 71, 53, 85, 71 50, 53, 57, 60, 65, 66, 68, 70, 71, 71, 71, 71, 71, 85 69

