

Alg I

10.5 Interpret Box-and-Whisker Plots

I can make and interpret box-and-whisker plots.

Box-and-Whisker Plot: Organizes data in 4 groups

Lower Quartile: (LQ) The median of the lower half of data

Upper Quartile: (UQ) The median of the upper half of data

Ch. 10 Quiz

Ch. 9/10 Test

Steps:

- 1) Order data and find median
- 2) find lowest and highest numbers
- 3) find LQ and UQ

Example 1:

1) $\underbrace{15, 20, 25, 30}_{\text{Lower}}, \underbrace{40, 55, 60, 70}_{\text{Upper}}$

$$\textcircled{1} \text{ median} = \frac{30+40}{2} = \frac{70}{2} = \boxed{35}$$

$$\textcircled{2} \text{ LQ} = \frac{20+25}{2} = \frac{45}{2} = \boxed{22.5}$$

$$\text{UQ} = \frac{55+60}{2} = \frac{115}{2} = \boxed{57.5}$$

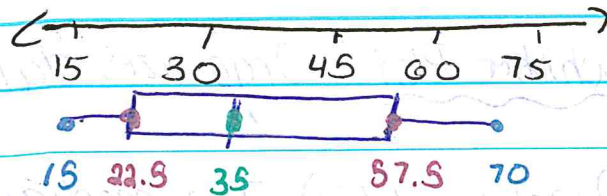
$$\textcircled{3} \text{ lowest} = \boxed{15} \quad \text{Highest} = \boxed{70}$$

Name

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Interquartile Range: The difference between the UQ and LQ

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- * Each whisker is 25% of the data
- * Each Box side is 25% of the data

* Complete Skills Practice, pg. 687-688, #

Example 2:

2) 1 Box and 1 whisker = 50%
6 months

Outlier: A value that is widely separated from the rest of the data

Example 3:

3) 3.0, 3.2, 3.2, 3.4, 3.6, 3.7, 3.8, 4.2, 4.3, 4.5,
5.2, 5.4

Ⓐ No Outlier