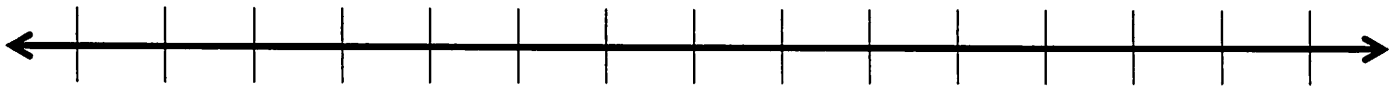
List the number of songs fifteen students have on their MP3 players in order from **Least to Greatest**.

Min = **Q1 =** **Med =** **Q3=** **Max =**



What percentage of students have at most 407 songs? _____

Find the Range = Find the Inter-Quartile Range =

Is either the range or inter-quartile range a better indicator of variability? Explain your choice.

_____

_____

Box and Whisker Plot

_____

_____

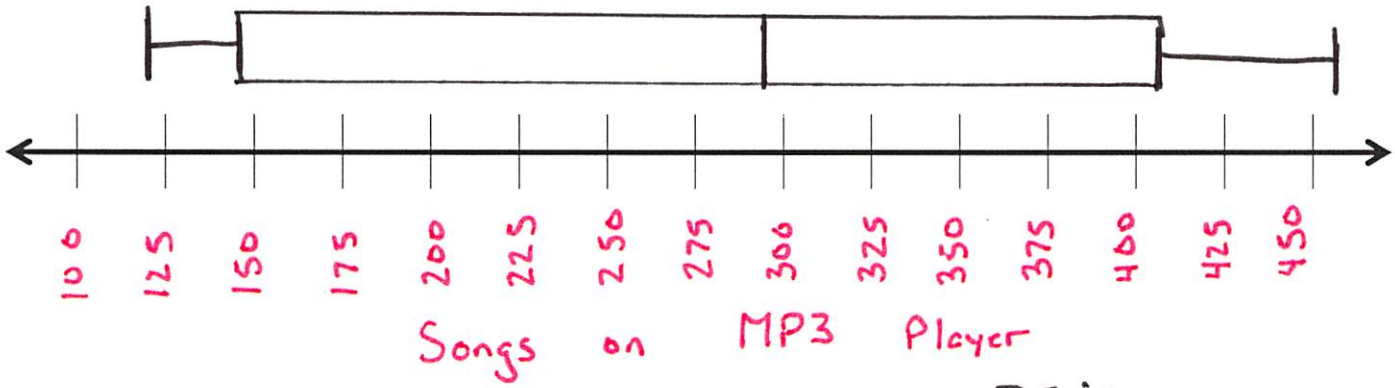
_____

_____

List the number of songs fifteen students have on their MP3 players in order from **Least to Greatest**.

120, 124, 132, 145, 200, 255, 260, 292, 308, 314, 342, 407, 421, 435, 452

Min = 120 **Q1 =** 145 **Med =** 292 **Q3=** 407 **Max =** 452



What percentage of students have at most 407 songs? 75%.

Find the Range = 452 - 120 = 332

Find the Inter-Quartile Range = 407 - 145 = 262

Is either the range or inter-quartile range a better indicator of variability? Explain your choice.

Since there are no outliers, either is a good indicator of variability. Typically we use the range when there are no outliers.

Box and Whisker Plot