

Stem Leaf and Box Whisker Plots

27 41 33 35 52
36 33 29 48 29
25 47 54 52 33

2 | 7 9 9 5
3 | 3 5 6 3 3
4 | 1 8 7
5 | 2 4 2

2 | 5 7 9 9
3 | 3 3 3 5 6
4 | 1 7 8
5 | 2 2 4

Key 3|0 = 30

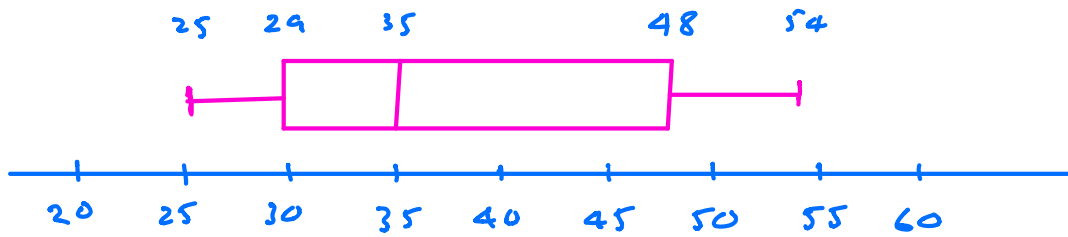
$$\text{Median} = \text{item } \frac{15+1}{2} = 8^{\text{th}} \text{ item} = 35$$

$$\text{Lower Quartile } Q_1 = \frac{15+1}{4} = 4^{\text{th}} \text{ item} = 29$$

$$\text{Upper Quartile } Q_3 = 3 \frac{(15+1)}{4} = 12^{\text{th}} \text{ item} = 48$$

$$\begin{aligned} \text{Inter Quartile Range } IQR &= Q_3 - Q_1 \\ &= 48 - 29 \\ &= 19 \end{aligned}$$

Box Whisker

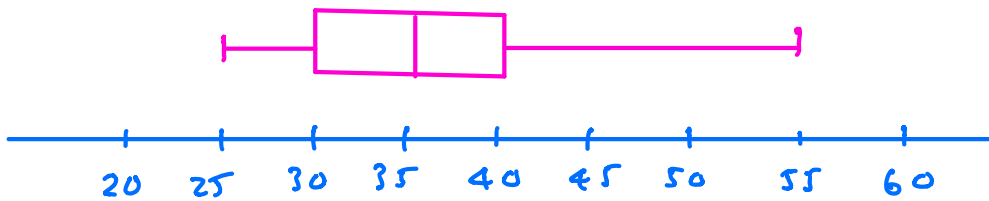


Show

- Lowest Value
- Lower Quartile
- Median
- Upper Quartile
- Highest Value

Making Comparisons Between Data Sets

Girls



Boys



On average, the boys performed better than the girls. They had a median score of 45 compared to the girls median of 35,

The girls results were more consistent than the boys. They had an IQR of 10 compared to the boys IQR of 15