

# Measures of Partition

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# Measures of Partition

- Quartiles
- Percentiles
- Deciles

# Quartiles

# Quartiles

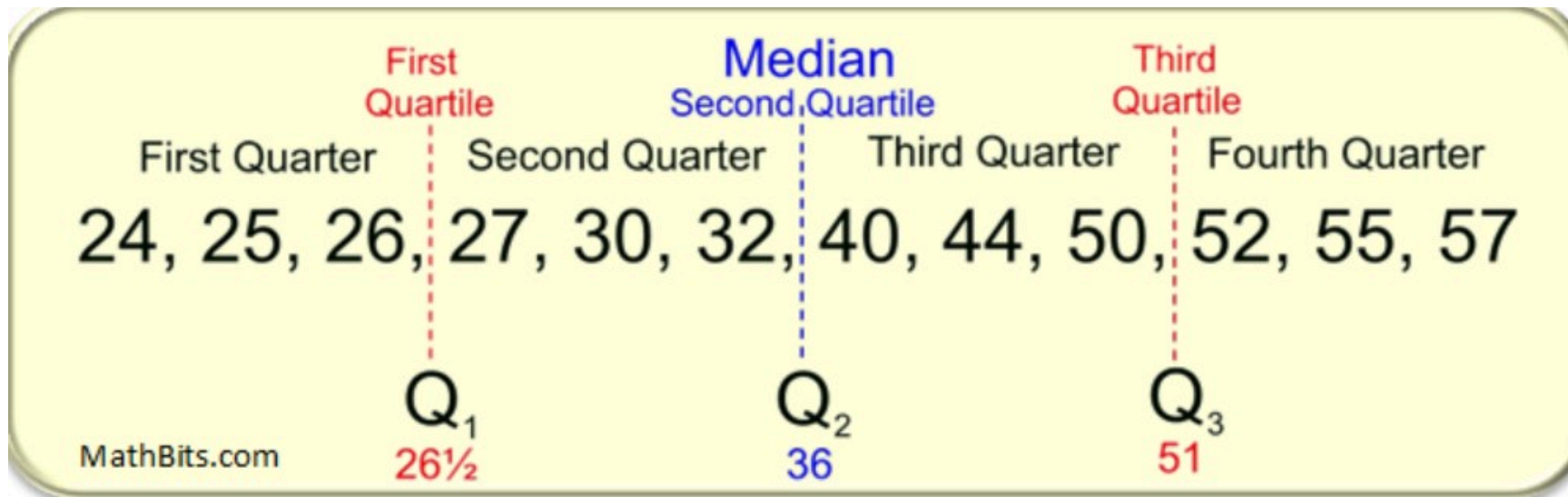
- Divide the data into four equal parts.
- There are three quartile points; **Q1**, **Q2**, and **Q3**.

# Quartiles

- First quartile - **25%**
- Second quartile(Median) - **25.1% - 50%**
- Third quartile - **51% - 75%**
- Fourth quartile - **25%**

# Quartiles

- Semi interquartile range is half of the distance between the third and first quartile point.
- Interquartile range is the difference between the upper and lower quartile of a dataset.



Source: [MathBitsNotebook](https://www.mathbitsnotebook.com)

# Percentiles

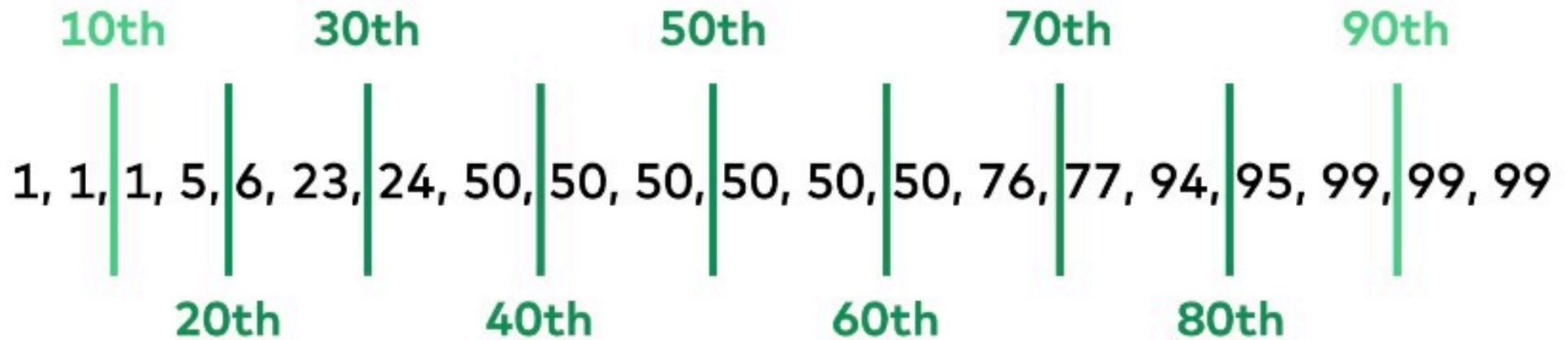
# Percentiles

- Splits data into 100 parts
- 25th percentile - Q1
- 50th percentile - Q2(median)
- 75th percentile - Q3



# Percentiles

## percentiles



Source: [data36](#)

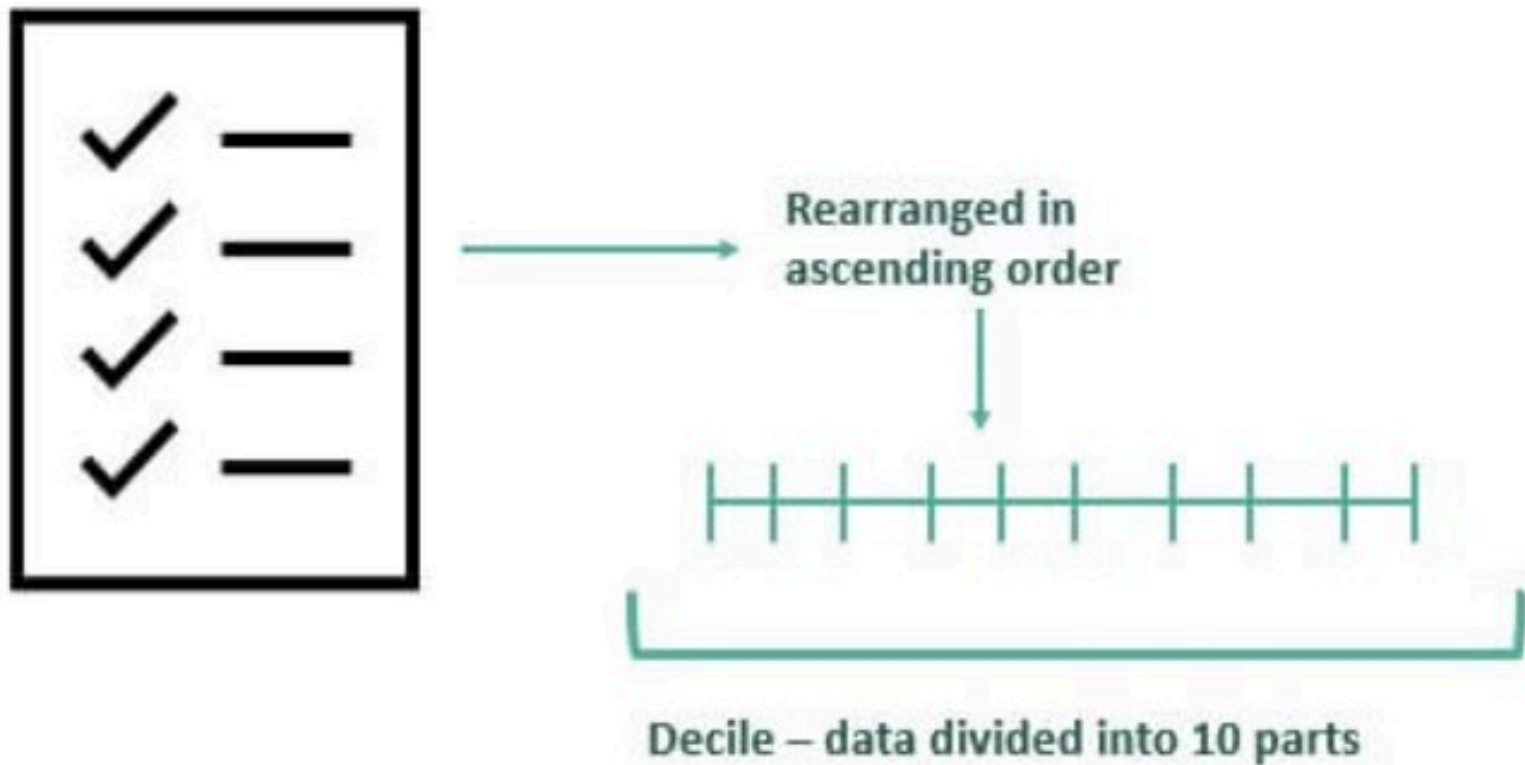
# Deciles

# Deciles

- Divides a distribution into ten equal parts
- 2nd decile is **Q1**
- 5th decile is the **median**
- 7th decile is **Q3**

# Deciles continued

Decile



Source: [Wall Street Mojo](#)