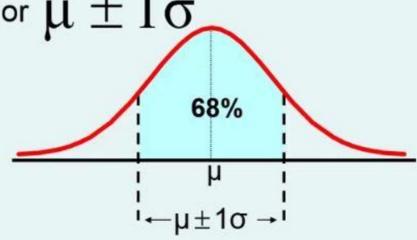
Empirical Rule

The Empirical Rule

- The empirical rule approximates the variation of data in a bell-shaped distribution
- Approximately 68% of the data in a bell shaped distribution is within 1 standard deviation of the mean or $\mu \pm 1\sigma$



The Empirical Rule

- Approximately 95% of the data in a bell-shaped distribution lies within two standard deviations of the mean, or μ ± 2σ
- Approximately 99.7% of the data in a bell-shaped distribution lies within three standard deviations of the mean, or μ ± 3σ

