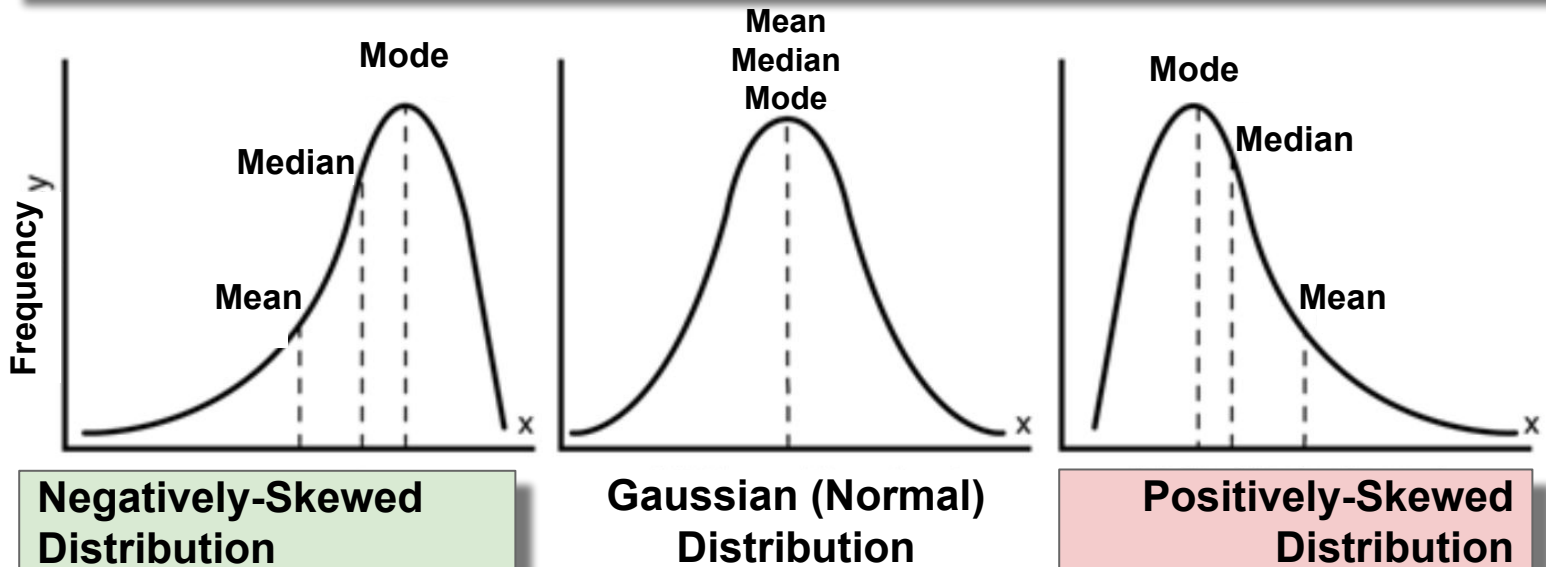


# Mean, Median, Mode, and Skew

## Quick Reference Guide

**Mean** The mathematical average of the numbers comprising the data set  
**Median** The middle value of the ordered numbers in the data set  
**Mode** The most frequently-occurring number in the data set



A **negatively-skewed** or **left-skewed** data distribution has a *lower* mean than its median.

**Example:** The majority of ensemble members forecast tomorrow's high temperature around 75°F, but a small number have high temperatures only in the 40s or 50s.

A **positively-skewed** or **right-skewed** data distribution has a *higher* mean than its median.

**Example:** Most of the stations across the region recorded only a few hundredths of an inch of rainfall yesterday, but a few stations received well over two inches of rain.

***Important:*** The **50th percentile** of a data set is always equal to its **median**, but is **not** necessarily equal to its mean or mode.