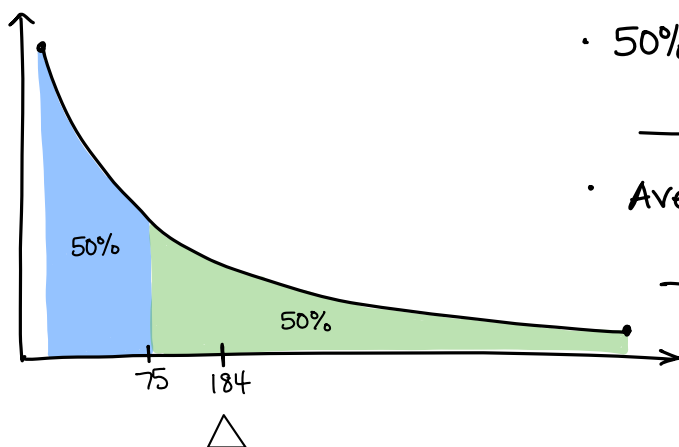## Center : Mean & Median

What do we mean by "typical"?

Ex Church membership in U.S.
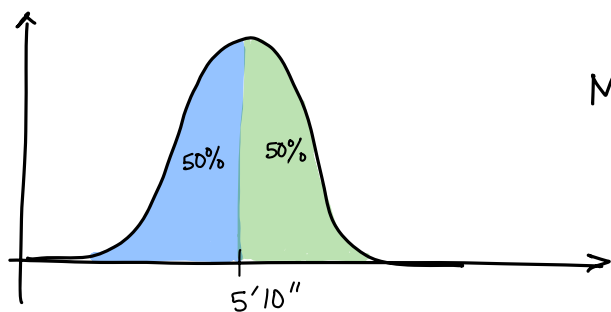

- 50% of churches have ≤ 75 members

  _____ church size : 75

- Average church size : 184

  _____ church size : 184

Ex Height of Men in World

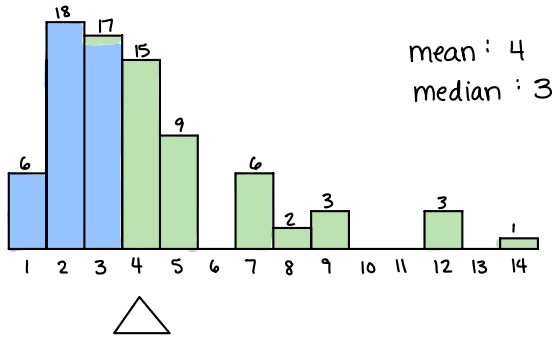Mean = Median = Mode

To calculate mean :

- _____ up all data values
- _____ by _____ of data points

To calculate median :

- Sort data
- If # data points is

  - _____ , median is _____ number.
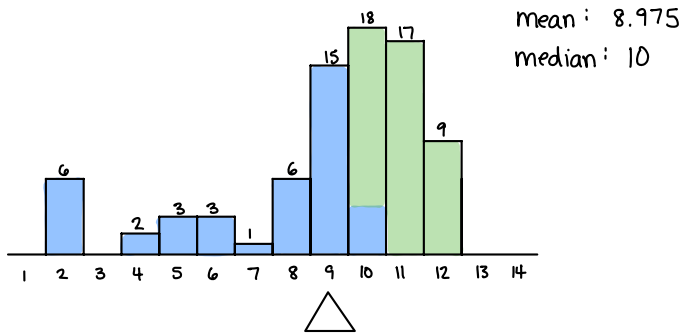 - _____ , median is _____ of _____ numbers.

Note : Mean is sensitive to "outliers", median much less so.
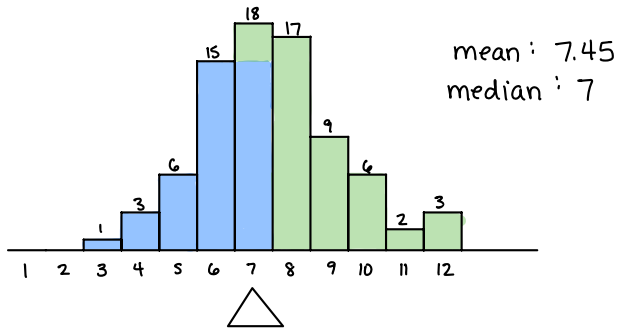
Mean, Median, & Shape of Distribution

mean : 4
median : 3

Skewed _____

mean ◯ median

mean : 8.975
median : 10

Skewed _____

mean ◯ median

mean : 7.45
median : 7

Symmetric

mean ◯ median