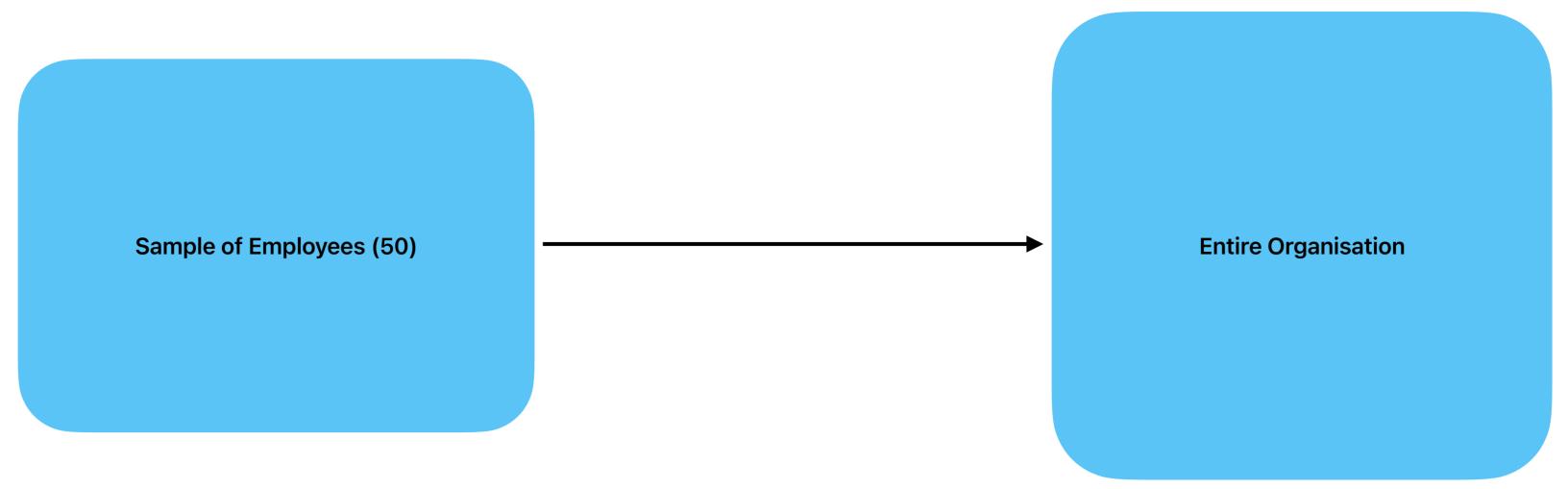
Confidence Interval Estimate the average height of employees in your office



- Collect Data
- Calculate the Statistics (mean & std)
- Build the Interval (range of values which we pretty sure that our true average height of employees in the organisation
- Level of Confidence (0.95)
- Interpretation: I am 95% confident that true average height of all the employees is between 150 cm to 180 cm

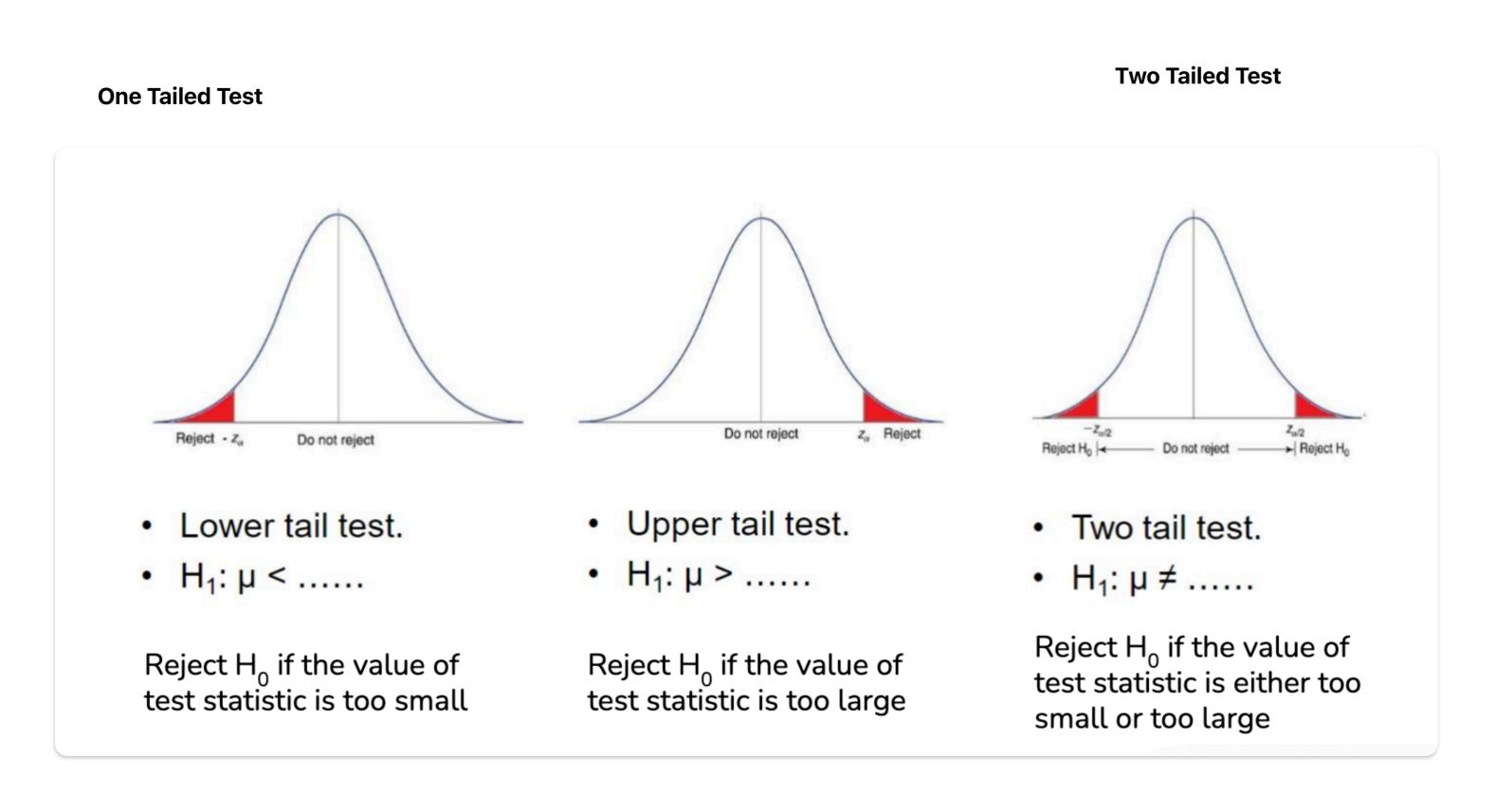
Margin of Error Estimate the average height of employees in your office

Measure of how much the results of an experiment might vary due to randomness or chance.

Height of the sample - 165 cm

Margin of error - How much percentage of the Employee's height would vary from 165 cm height result from sample

- Collect Data
- Calculate the MoE (using sample data & CI)
- Interpretation: Based on our sample we estimate that avg height of employee is 165 cm, with margin of error of +-5%
- True values 165+- 5%



One Tailed Test - Frame Null and Alternate Hypothesis using inequalities

H0 : pop_mean >= x HA: pop_mean < x