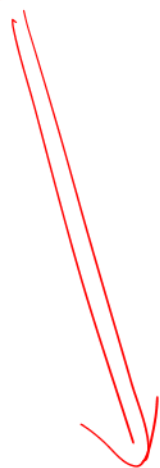


To form a CI for a parameter

$\theta$



- what confidence level? 95%? 99%?
- what is the estimate value of  $\theta$ ?  
(eg:  $\theta$  = mean height of pop then sample mean  $\bar{X}$  is the estimator of  $\theta$ )

= sample size :  $n = ?$

- sample standard deviation :  $s$ .

$$\bar{X} \pm \boxed{\phantom{0}} * \text{Standard error of the estimator } \bar{X}$$

↓  
multiplier, it depends on

{

sample size

confidence level

distribution of  $\bar{X}$ .

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$$\bar{X} \pm t_{n-1, 0.975} * \frac{s}{\sqrt{n}}$$

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How to get CI for odds ratio ( $\theta$  = OR in the pop).

From a sample, the OR is :  $\frac{ad}{bc} \Rightarrow \underline{\underline{\text{CI for } \theta}}$