

Hypothesis Test for the mean

What are you comparing?

A sample of data
with a given mean

The difference between the
mean of two samples

The mean of two
samples of data

Is σ given?

NO

Is $n > 30$?

NO

YES

YES

Is σ given?

NO

Is $n > 30$?

NO

YES

YES

Hypothesis Testing for the Mean

STEP / TEST	One Sample z Test	One Sample t Test	Two Sample z Test	Two Sample t Test	Paired t Test
1. Hypotheses					
2. One or two tailed					
3. Significance level					
4. Test Statistic					
5. Critical Value & Critical Region					
6. Compare and Conclude					