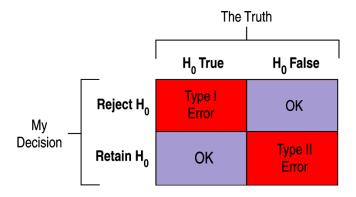# Chapter 21 - More About Tests

Here is an illustration of the four situations in a hypothesis test:

Which type of error is more serious depends on the situation at hand.

Both errors can be reduced by increasing the sample size.

The **power** of a test is the probability that it correctly rejects a false null hypothesis.

$\text{power} = 1 - \beta$ where β is the probability that a test fails to reject a false null hypothesis.