Power, Type I and Type II errors

- We make a **Type I error** when we reject the null hypothesis and it's true. Alpha is the probability of making a Type I error.
- We make a **Type II error** when we retain the null hypothesis and it's false. Beta is the probability of making a Type II error.
- The **power** of a test is the probability that it correctly rejects a false null hypothesis.

Graphic from rpsychologist.com/d3/nhst/

5 %	20 %	80 %	20
Type I error	Type II error	Power	Sample size