







Required Sample Size (a)
• For the two-sided alternate hypothesis
with significance level
$$\alpha$$
, the sample
size $n_1 = n_2 = n$ required to detect a true
difference in means of Δ with power at
least $1-\beta$ is:

$$n = \frac{(z_{\alpha/2} + z_{\beta})(\sigma_1^2 + \sigma_2^2)}{(\Delta - \Delta_{\theta})^2}$$





























