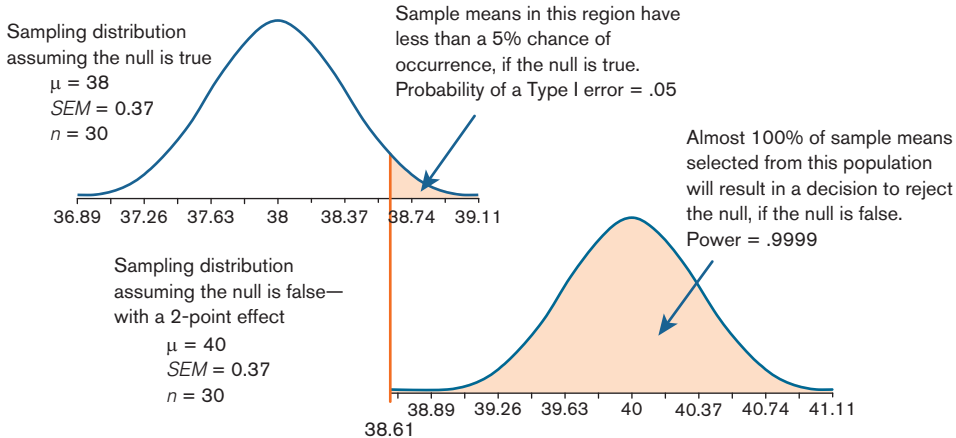


FIGURE 8.11**Large Effect Size and High Power for Class 2**

In this example, when alpha is .05, the critical value or cutoff for alpha is 38.61. When $\alpha = .05$, notice that practically any sample will detect this effect (the power). So if the researcher is correct, and the null is false (with a 2-point effect), nearly 100% of the samples he or she selects at random will result in a decision to reject the null hypothesis.