



3. For a number of years, the proportion of entering students who survived the first year in engineering school was about 65% nationwide. Engineering schools then instituted various measures to improve the situation, including more diligent screening of admissions and more counseling help. After the change, in a random sample of 800 students who were beginning their first year at engineering school, 560 (or 70%) of the students survived the year. The P-value for the situation is calculated to be 0.0015.

4. *Challenge: Make a decision about this test without a P-value.*

Lay's has just received a truckload of potatoes from its main supplier. They will assume that the truck is full of good potatoes, but if they find convincing evidence that more than 8% of the potatoes in the shipment have blemishes, the truck will be sent away to get another load from the supplier. A supervisor selects a random sample of 500 potatoes from the truck. An inspection reveals that 33 of the sampled potatoes have blemishes.