Outline

1. An example of a hypothesis test: shall we send back a shipment of Raisin Bran?

2. The new setting:
   (a) A population with one categorical variable.
   (b) One of the categories of the variable is called “success”.
   (c) $\pi$ is the proportion of successes in the population.
   (d) We have a SRS of size $n$ from the population.
   (e) $x$ is the number of successes in the sample.
   (f) $\hat{\pi} = x/n$ is an estimate of $\pi$.

   **Warning:** The book uses $p$ and $\hat{p}$ for $\pi$ and $\hat{\pi}$ respectively. Be sure you know why this is an egregious error (but understandable given historical conventions).

3. Examples:
   (a) left-handed Calvin students
   (b) voters favoring Obama
   (c) spinning pennies
### Summary statistics:

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<th>Std. Dev.</th>
<th>Std. Err.</th>
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