Figure 1.

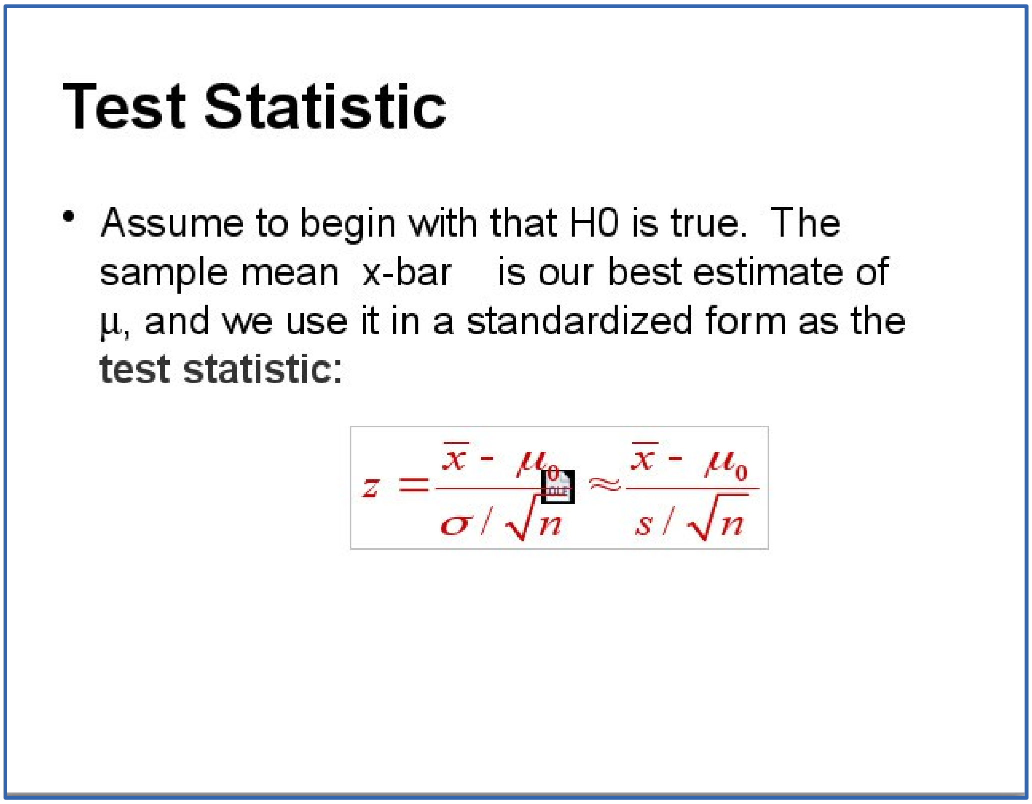

Figure 2.

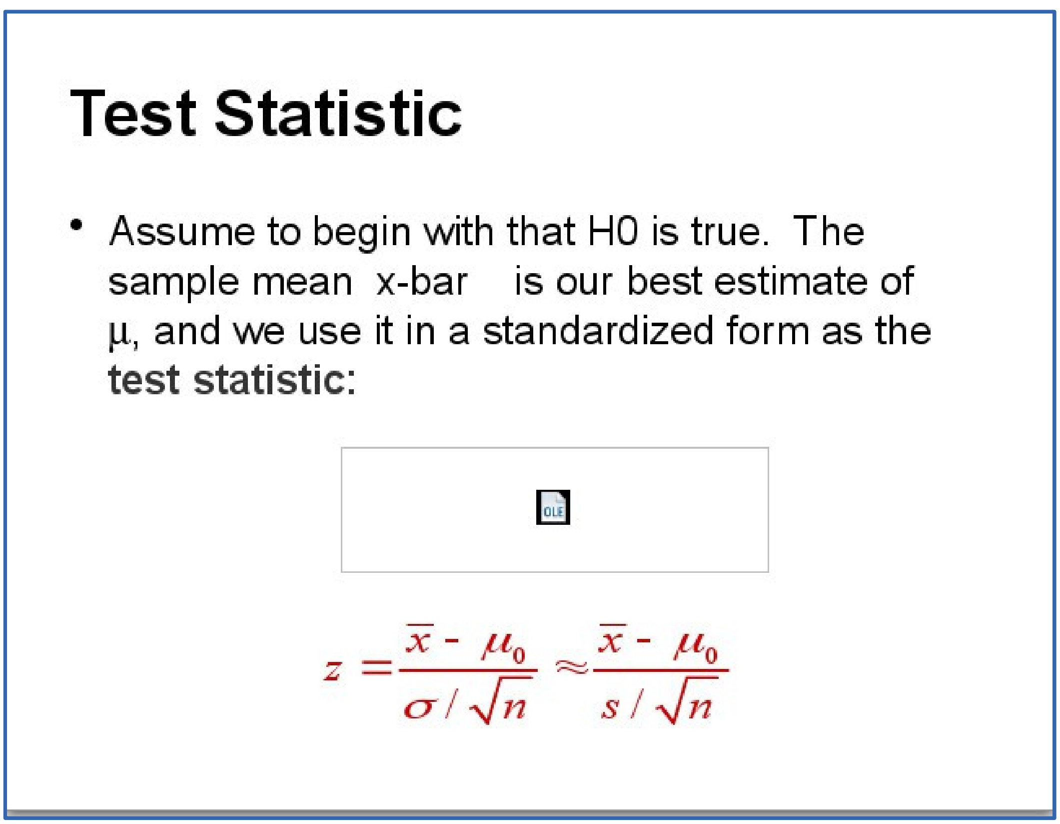

Figure 3.

Test Statistic

- Assume to begin with that H0 is true. The sample mean x-bar is our best estimate of μ, and we use it in a standardized form as the **test statistic**:

$$z = \frac{\bar{x} - \mu_0}{\sigma / \sqrt{n}} \approx \frac{\bar{x} - \mu_0}{s / \sqrt{n}}$$

Figure 4.

Test Statistic

- Assume to begin with that H_0 is true. The sample mean x-bar is our best estimate of μ, and we use it in a standardized form as the **test statistic:**

$$\boxed{z = \frac{\bar{x} - \mu_0}{\sigma / \sqrt{n}} \approx \frac{\bar{x} - \mu_0}{s / \sqrt{n}}}$$