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Solutions from Montgomery, D. C. (2004) *Design and Analysis of Experiments*, Wiley, NY

## Chapter 2 Simple Comparative Experiments Solutions

**2-1** The breaking strength of a fiber is required to be at least 150 psi. Past experience has indicated that the standard deviation of breaking strength is  $\sigma = 3$  psi. A random sample of four specimens is tested. The results are  $y_1=145$ ,  $y_2=153$ ,  $y_3=150$  and  $y_4=147$ .

(a) State the hypotheses that you think should be tested in this experiment.

$$H_0: \mu = 150 \quad H_1: \mu > 150$$

(b) Test these hypotheses using  $\alpha = 0.05$ . What are your conclusions?

$$n = 4, \quad \sigma = 3, \quad \bar{y} = 1/4 (145 + 153 + 150 + 147) = 148.75$$

$$z_c = \frac{\bar{y} - \mu_0}{\frac{\sigma}{\sqrt{n}}} = \frac{148.75 - 150}{\frac{3}{\sqrt{4}}} = \frac{-1.25}{\frac{3}{2}} = -0.8333$$

Since  $z_{0.05} = 1.645$ , do not reject.

(c) Find the  $P$ -value for the test in part (b).

From the  $z$ -table:  $P \approx 1 - [0.7967 + (2/3)(0.7995 - 0.7967)] = 0.2014$

(d) Construct a 95 percent confidence interval on the mean breaking strength.

The 95% confidence interval is

$$\bar{y} - z_{\alpha/2} \frac{\sigma}{\sqrt{n}} \leq \mu \leq \bar{y} + z_{\alpha/2} \frac{\sigma}{\sqrt{n}}$$

$$148.75 - (1.96)(3/2) \leq \mu \leq 148.75 + (1.96)(3/2)$$

$$145.81 \leq \mu \leq 151.69$$

**2-2** The viscosity of a liquid detergent is supposed to average 800 centistokes at 25°C. A random sample of 16 batches of detergent is collected, and the average viscosity is 812. Suppose we know that the standard deviation of viscosity is  $\sigma = 25$  centistokes.

(a) State the hypotheses that should be tested.

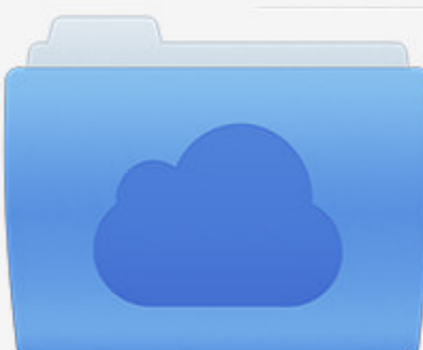
$$H_0: \mu = 800 \quad H_1: \mu \neq 800$$

(b) Test these hypotheses using  $\alpha = 0.05$ . What are your conclusions?

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2-1

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