

(d) If the hypothesis had been  $H_0: \mu_1 - \mu_2 = 2$  versus  $H_1: \mu_1 - \mu_2 < 2$ , would you reject the null hypothesis at the 0.05 level? Can you answer this question without doing any additional calculations? Why?

Yes, no additional calculations are required because the test is naturally becoming more significant with the change from -2.33341 to -4.33341.

(e) Use the output and the *t* table to find a 95 percent upper confidence bound on the difference in means?

95% upper confidence bound = -1.21.

(f) What is the *P*-value of the alternative hypotheses are  $H_0: \mu_1 - \mu_2 = 2$  versus  $H_1: \mu_1 - \mu_2 < 2$ ?

*P*-value = 1.48E-07.

2.88. 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?

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

$$z_{\alpha} = \frac{\bar{Y} - \mu_0}{\sigma/\sqrt{n}} = \frac{148.75 - 150}{3/\sqrt{4}} = \frac{-1.25}{1.5} = -0.8333$$

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

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

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

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

The 95% confidence interval is

$$\begin{aligned} \bar{Y} - z_{0.025} \frac{\sigma}{\sqrt{n}} &\leq \mu \leq \bar{Y} + z_{0.025} \frac{\sigma}{\sqrt{n}} \\ 148.75 - (1.96)(3/2) &\leq \mu \leq 148.75 + (1.96)(3/2) \\ 145.81 \leq \mu &\leq 151.69 \end{aligned}$$

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