Written Homework 6 Answers, due Thursday 7 August 2008

This assignment has both recommended and required problems. Please only submit the required problems on the 7th.

Recommended

Section 8-3: Page 414, Problem 6

You need to specify appropriate statistical hypotheses z=-2.70 z critical = -1.645 0.0035 There is sufficient evidence ... No

Section 8-4: Page 423, Problem 10

You need to specify appropriate statistical hypotheses z = -6.64 z critical = -1.645 0.0001 (using software 0.0000) Reject the null There is sufficient evidence ...

Section 8-5: Page 433, Problem 20

You need to specify appropriate statistical hypotheses t = -1.756 t critical = +/- 2.110 0.05 (using software 0.0970) Fail to reject the null There is insufficient evidence ...

Section 9-2: Page 466, Problem 24

95% CI: -0.00199 < p1 - p2 < 0.00329You add the interpretation

Section 9-3: Page 480, Problem 17

You need to specify appropriate statistical hypotheses t = 0.132 t critical = 1.729 p > 0.10 (using software 0.4480) Fail to reject the null There is insufficient evidence ...

Required

Section 8-3: Page 417, Problem 24

State hypothesis (I can't list them here without giving you the solution).

Test statistic: z = -5.46Critical value: z = -2.33

P-value: 0.0001

Conclude reject the null—you must put the conclusion in the context of the problem

Section 8-4: Page 425, Problem 18

State hypothesis (I can't list them here without giving you the solution).

Test statistic: z = -1.12Critical value: z = +/-1.96

P-value: 0.0.2628 (using software 0.2632)

Conclude fail to reject the null—you must put the conclusion in the context of the

problem

Section 8-5: Page 433, Problem 18

State hypothesis (I can't list them here without giving you the solution).

Test statistic: t = -0.601Critical value: t = +/-2.021

P-value: > 0.20 (using software 0.5515)

Conclude fail to reject the null—you must put the conclusion in the context of the

problem

Section 9-2: Page 466, Problem 20; Assume that alpha for the hypothesis test is 0.05.

State hypothesis (I can't list them here without giving you the solution).

Test statistic: z = -12.39Critical value: z = -1.645

P-value: 0.0001 (using software 0.0000)

Conclude Reject the null—you must put the conclusion in the context of the problem

Section 9-3: Page 481, Problem 18

-0.61 < mu1 - mu2 < 0.71

There is insufficient evidence to support the claim—Why?