

SOLUTION SHEET: Hypothesis Testing for Two Means, Paired Data, and Two Proportions

a. H_0 : _____ b. H_a : _____

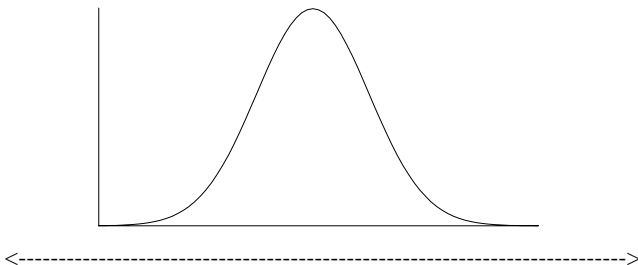
c. In words, CLEARLY state what your random variable $\bar{X}_1 - \bar{X}_2$, $P_1' - P_2'$ or \bar{X}_d represents.

d. State the distribution to use for the test. _____

e. Test Statistic: t or z = _____

f. p-value = _____ In 1 – 2 complete sentences, explain what the p-value means for this problem.

g. Use the previous information to sketch a picture of this situation. CLEARLY, label and scale the horizontal axis and shade the region(s) corresponding to the p-value.



h. Indicate the correct decision (“reject” or “do not reject” the null hypothesis) and write appropriate conclusions, using COMPLETE SENTENCES.

alpha	decision	reason for decision
_____	_____	_____

Conclusion: _____

i. In complete sentences, explain how you determined which distribution to use.