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Homework 1, Revision

**Part II**

1. H0: , H1:

An independent groups t-test was performed comparing the mean blood pressure for the diet 1 (M = 193, SD = 17.44 ) with that for the diet 2 (M = 176, SD = 13.87 ). Using an alpha level of 0.05, this test was found to be statistically significant, t(70) = 4.57, p <0.01, indicating that diet 1 and diet 2 have different blood pressure outcomes and, to be more specific, diet 2 is associated with lower blood pressures.

Two Sample t-test

data: hyptension by diet

t = 4.5757, df = 70, p-value = 2e-05

alternative hypothesis: true difference in means is not equal to 0

95 percent confidence interval:

9.590143 24.409857

sample estimates:

mean in group 1 mean in group 2

193 176

1. Levene’s test of equality of variances indicates the equality of variances can be assumed in our to groups:

modified robust Brown-Forsythe Levene-type test based on the absolute

deviations from the median

data: y

Test Statistic = 1.1056, p-value = 0.2966