

## Attendance Quiz 22

Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. (*Inferences from Dependent Samples*) As part of the National Health and Nutrition Examination Survey conducted by the Department of Health and Human Services, self-reported heights and measured heights were obtained for males aged 12-16. List below are sample results.

(a) Use a 0.05 significance level to test the claim that there is a difference between self-reported heights and measured heights of males aged 12-16.

(b) Construct a 95 % confidence interval estimate of the mean difference between reported heights and measured heights.

Reported height	68	71	63	70	71	60	65	64	54	63	66	72
Measured height	67.9	69.9	64.9	68.3	70.3	60.6	64.5	67	55.6	74.2	65.0	70.8