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Intro to Stats Homework for Week 2

Module 5

Due Friday before the start of class

This part of the assignment will cover Sessions 5-9 and be worth 100 points.

You may submit your answers electronically with this sheet via MyCourses, or on paper in class to me on Friday. If you submit answers on paper, please include all associated student names, write legibly, and preserve the order of the questions as listed below.

I would like to see your work, but regardless, for any questions that require calculations, please make it clear to me what your final answer is by either making it the final line (electronic) or by circling it (handwritten).

**Session 5:**

(1) Pg 242: 5.15 (10 pts)

**Session 6:**

(1) Pg 268: 6.11 (10 pts)

**Session 7:**

(1) Pg 296: 7.3 (10 points)

(2) Pg 296: 7.5, parts a-c (10 points)

**Session 8:**

(1) Pg 313, 8.9 (10 pts)

(2) Pg 319, 8.15 (10 pts)

**Session 9:**

(1) Pg 360, 9.25 (10 pts)

(2) Pg 366, 9.47 (10 pts)

**Data Exercise** (20 points total)

If you submit this part separately, you MUST include the names (first and last) of the group members on the separate document. Do not turn in this part separately without names. If you do, it will be a 5 point penalty.

Once again, use the SoldHomes1 file from MyCourses.

1. Construct a 95% confidence interval for the sales price of homes in Savannah
2. It is claimed that the average sales price of a home in Savannah is equal to or under $230,000. You are skeptical and think the mean sales price is higher. Conduct the appropriate hypothesis test.
3. Your client is interested to know if home prices differed from 2020 to 2021. Using what we learned in class on Thursday, construct the appropriate hypothesis and test it. What is your conclusion?