Lesson 63: Comparing means from two groups (significance test)

Daily Data Collection

Question: Does what you watch/listen to affect your pulse/attitude?

Step 1: We will randomly assign people to 1 of 4 groups.

Step 2: Everyone will spend 5 minutes exposed to their assigned treatment.

Step 3: Now everyone records their pulse for 15 seconds (x4 for a minute) and reports their level of stress.

Step 4: Compare each group.

Describe the 4 treatments, x-bar for

Group	*N*	*Pulse x-bar*	*Pulse Sx*	*Attitude x-bar*	*Attitude Sx*
1 - Control					
2					
3					
4					

Compare groups 2 – 4 to the control group for pulse rate. Use a two-sided test for each.

Groups Compared:			
x-bar(T) – x-bar(C)			
St. Dev. of Difference=			
DF and T =			
p-value =			
Reject?			

Conclusions:

Compare groups 2 – 4 to the control group for Attitude. Use a two-sided test for each.

Groups Compared:			
x-bar(T) – x-bar(C)			
St. Dev. of Difference=			
DF and T =			
p-value =			
Reject?			

Conclusions:

HW 63 (from section 10-2): 51, 53, 59, 65, 67-70