

Correlation Difference Practice for Lab Quiz

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Question 1

The rating-compliant correlation is significantly stronger than the rating-critical correlation, delta $r = .67$, 95% $CI [.32, 1.0]$, $p = .0001$

Question 2

The rating-complaint correlation is stronger than the raises-critical correlation, delta $r = .45$, 95% $CI [.14, .81]$, $p = .005$

Question 3

The PI for our new study with $n = 100$ is 95% $PI[.05, .74]$. If the replication correlation falls outside this range, it is likely that the difference is due to factors other than sampling error.

Question 4

Not entirely sure why you can't get a PI smaller than .5, but it would appear that you cannot. Perhaps it has something to do with the CI being large? **ask David on Tuesday**

Question 5

The two correlations are not significantly different, delta $r = .33$, 95% $CI[-.02, .59]$, $p = .06$

Question 6

See above.