

**In-Video Quiz Questions for
Unit 4: Part 1 – (2) Confidence Intervals for Paired Data**

(01:15) – slide 3, after “Which can be further expanded as the standard deviation, divided by the square root of the sample size.”

1. What is the equivalent confidence level to a two-sided hypothesis test at the 5% significance level?

- (a) 10%
- (b) 90%
- (c) 95%
- (d) 92.5%
- (e) 97.5%

(01:29) – slide 4, after “Would we expect a 95% confidence interval for the average difference between the reading and writing scores to include zero?”

2. Would you expect a 95% confidence interval for the average difference between the reading and writing scores to include 0? Remember, the p-value was 0.384.

- (a) yes
- (b) no
- (c) cannot tell from the information given

Answers:

1. c

Explanation: For two-sided HT, equivalent confidence level is the complement of the significance level.

2. a

Explanation: We failed to reject the null, so the null value should be in the interval.