

**In-Video Quiz Questions for
Unit 4, Part 1: (4) Inference for comparing two paired means**

(05:09)

1. What is the p-value?

- (a) less than 0.2
- (b) greater than 0.2
- (c) less than 0.01
- (d) less than 0.005

(05:22)

2. At a 5% significance level, which of the following is the best conclusion of the hypothesis test?

- (a) Fail to reject the null hypothesis, the data provide convincing evidence of a difference between the average reading and writing scores.
- (b) Reject the null hypothesis, the data provide convincing evidence of a difference between the average reading and writing scores.
- (c) Fail to reject the null hypothesis, the data do not provide convincing evidence of a difference between the average reading and writing scores.
- (d) Reject the null hypothesis, the data do not provide convincing evidence of a difference between the average reading and writing scores

Answers:

1. b

Explanation: $df = 199$, and we're looking for a two-tailed p-value.

2. c

Explanation: The p-value is large, hence there isn't convincing evidence for the alternative.