

In-Video Quiz Questions for  
Unit 4, Part 3: (2) ANOVA

(01:42)

1. In this analysis which is the response and which is the explanatory variable?  
  
(a) **response:** vocabulary score, **explanatory:** class  
(b) **response:** class, **explanatory:** vocabulary score

(05:35)

2. What percent of the total variability is explained by the groups, i.e. what percent of SST is SSG?  
  
(a) 7.6%  
(b) 13.1%  
(c) 86.9%  
(d) 92.4%

(02:19)

3. What is the conclusion of the hypothesis test?

The data provide convincing evidence that the average vocabulary score

- (a) is different for all groups.
- (b) is higher for the middle class than any other.
- (c) is different for at least one pair of groups.
- (d) is the same for all groups.

**Answers:**

1. a

**Explanation:** The numerical variable is the response variable in ANOVA.

2. b

**Explanation:**  $236.56/3106.36 = 0.076$

3. c

**Explanation:** ANOVA only answers whether there is evidence of difference in at least one pair of groups, it doesn't tell us which groups are different.