

Classroom Voting Questions: Statistics

Comparing Two Proportions

1. A two proportion z interval was constructed for the difference in the two population proportions, p_1 and p_2 . The resulting 99% confidence interval was $(-0.004, 0.12)$. A conclusion that could be drawn is:
 - (a) There is no significant difference between p_1 and p_2 .
 - (b) There is a significant difference between p_1 and p_2 .
 - (c) The range of possible differences between the two proportions could be from a 0.4% difference with p_2 being larger up to a 12% difference with p_1 being larger.
 - (d) Both (a) and (c) are correct.
 - (e) Both (b) and (c) are correct.

Answer: (a). Answer (c) is almost correct, but we could only say that with 99% confidence.

by Jack Oberweiser

STT.08.02.010