

# Classroom Voting Questions: Elementary 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.