

**Math 180 Homework #5**  
**Due Friday, October 18**

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1. According to the Gallup poll linked here ([www.gallup.com/poll/165392/perceived-need-third-party-reaches-new-high.aspx](http://www.gallup.com/poll/165392/perceived-need-third-party-reaches-new-high.aspx)), 60% of Americans feel that a third party is needed in politics.
  - (a) What is the 95% margin of error?
  - (b) What is the 95% confidence interval?
  - (c) What is the 90% margin of error?
  - (d) What is the 90% confidence interval?