How often do brides keep their own last name? Researchers examined a random sample of wedding announcements appearing in *The New York Times* between the years 2001 and 2005. They found that 18% of the 600 brides in the sample kept their own last name after the wedding.

1. Is 18% (0.18) a parameter or a statistic? What symbol do we use for it?

2. Determine (by hand) a 95% confidence interval for the relevant parameter.

3. Interpret this interval: You’re 95% confident of what? Be sure to include a description of the relevant parameter.

4. How would a 99.9% confidence interval differ (if at all) from the 95% one? Mention how both the midpoint and width would compare.

5. Would you feel comfortable with generalizing the results of this survey to the population of all brides in the United States between the years 2001 and 2005? Explain.