

AP Statistics  
Chapter 8 Confidence Intervals  
Extra Practice Problems

Multiple Choice

- 1.) You are going to create a 95% confidence interval for a population proportion and want the margin of error to be no more than 0.05. Historical data indicate that the population proportion has remained constant at about 0.7. What is the minimum size random sample you need to construct this interval?
- a. 385
  - b. 322
  - c. 274
  - d. 275
  - e. 323
- 2.) You are going to construct a 90%  $t$  confidence interval for a population mean based on a sample of size 16. What is the critical value of  $t$  ( $t^*$ ) you will use in constructing this interval?
- a. 1.341
  - b. 1.753
  - c. 1.746
  - d. 2.131
  - e. 1.337
- 3.) An airline observes a random sample of its flights on a particular route. The 95% confidence interval for the mean time (in minutes) for all flights on this route is calculated to be (47.0, 53.0). Which of the following is NOT true?
- (A) At the 95% confidence level, the true mean flight time is within 3.0 minutes of the sample mean flight time.
  - (B) If the true mean flight time were outside the interval (47.0, 53.0) then the sample mean that was found would be very unlikely.
  - (C) Approximately  $2\frac{1}{2}\%$  of flights on this route are longer than 53 minutes.
  - (D) We are 95% confident that the true mean flight time is between 47.0 and 53.0 minutes.
  - (E) If many random samples of the same size were taken and the 95% confidence intervals were calculated, then 95% of the confidence intervals would contain the true mean flight time.

# Ap Statistics Chapter 4 Answers

**Kathleen A. Larson, David Levine**



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web a linear feedback shift register lfsr is a shift register in which some of its outputs are connected to the input through some logic gates typically an xor a wide variety of bit patterns can be generated inexpensively including pseudo random sequences can be used as a noise generator

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web in computing a linear feedback shift register lfsr is a shift register whose input bit is a linear function of its previous state the most commonly used linear function of single bits is exclusive or xor thus an lfsr is most often a shift register whose input bit is driven by the xor of some bits of the overall shift register value

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