AP Statistics Chapter 7 Test

Name: _Artur_

Part I: Multiple Choice. *Circle the letter corresponding to the best answer.*

1. According to the U.S. Census bureau, 23.5% of people in the United States are under the age of 18. In a random sample of 250 residents of a small town in Ohio, 28% of the sample was under 18. Which one of the following statements is true?
   (a) 23.5% and 28% are statistics, 250 and 18 are parameters.
   (b) 23.5% and 28% are parameters, 250 and 18 are statistics.
   (c) 23.5% and 28% are parameters, 18 is a statistic.
   (d) 28% is a parameter and 23.5% is a statistic.
   (e) 23.5% is a parameter and 28% is a statistic.

2. The best statistic for estimating a parameter has which of the following characteristics?
   (a) High bias, no variability
   (b) High bias, low variability
   (c) High bias, high variability
   (d) Low bias, low variability
   (e) Low bias, high variability

3. Olive weights are classified according to a unique set of adjectives implying great size. For example, the mean weight of olives classified as "Colossal" is 7.7 grams. Suppose a particular company's crop of "Colossal" olives is approximately Normally distributed with a mean of 7.7 grams and a standard deviation of 0.2 grams. Which of the following represents the probability that the mean weight of a random sample of 3 olives from this population is greater than 8 grams?
   (a) 0.0047
   (b) 0.0668
   (c) 0.0970
   (d) 0.1932
   (e) 0.9953

4. Population 1 is Normally distributed with a mean of 40 and a standard deviation of 4, and population 2 is Normally distributed with a mean of 25 and a standard deviation of 7. Suppose we select independent SRSs of $n_1 = 100$ and $n_2 = 85$ from population 1 and 2 respectively. Which of the following are the values of the mean and the standard deviation of the sampling distribution of $\bar{x}_1 - \bar{x}_2$?

   a. 15, $\sqrt{\dfrac{4^2}{100} + \dfrac{7^2}{85}}$

   b. 15, $\sqrt{\dfrac{4^2}{100} - \dfrac{7^2}{85}}$

   c. 15, $\sqrt{\dfrac{4(1-4)}{100} + \dfrac{7(1-7)}{85}}$

   d. 65, $\sqrt{\dfrac{4(1-4)}{100} - \dfrac{7(1-7)}{85}}$

   e. 65, $\sqrt{\dfrac{4^2}{100}} - \sqrt{\dfrac{7^2}{85}}$

Statistics In Action Chapter Test B Solution

Michael Hoelscher

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