

## 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) 0.0017  
 (b) 0.0068  
 (c) 0.00970  
 (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,  $\sqrt{\frac{4^2}{100} + \frac{7^2}{85}}$

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

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

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

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

# Chapter 7a Test Ap Statistics Dbwatt

**WJ Hussar**



## Chapter 7a Test Ap Statistics Dbwatt:

### **Communication Satellite Antennas: System Architecture, Technology, and Evaluation** Robert Dybdal, 2009-05-31

A Practical Approach To Antenna Technology For Communication Satellites This authoritative resource discusses antenna technology for communication satellites addressing both the space and user segments The book provides a system view of antenna applications a description of various antenna technologies and guidance on methodologies for antenna evaluation Communication Satellite Antennas begins with an overview of the parameters that characterize antennas and goes on to cover the antenna designs technologies and system architectures required for communication satellite systems Techniques to mitigate interference are covered and the processes used in the development and characterization of antenna systems are reviewed Discover how to Adhere to the system parameters used to quantify antenna performance Understand the technologies used in wide coverage earth coverage narrow coverage and array antennas Work within standard communication satellite system architectures and orbital alternatives Address propagation limitations and link performance Implement reliable antenna interference mitigation techniques Develop space segment antennas including spot beam multiple beam adaptive uplink active aperture and point to point antennas Apply user segment technologies such as reflector antenna technology antenna sidelobe control techniques and adaptive interference cancellation systems Evaluate satellite antennas and systems using rigorous methodologies

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**AP Statistics** Research and Education Association, 1997-01-01 Get the AP college

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can go back to the ones you have skipped Use the process of elimination when you are unsure of an answer If you can eliminate three of the answer choices you have given yourself a fifty fifty chance of getting the item correct since there will only be two choices left from which to make a guess If you cannot eliminate at least three of the answer choices you may choose not to guess as you will be penalized one quarter of a point for every incorrect answer Questions not answered will not be counted Be sure that you are marking your answer in the oval that corresponds with the correct item in the test booklet Since the multiple choice section is graded by machine marking the wrong answer will throw off your score **5**

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