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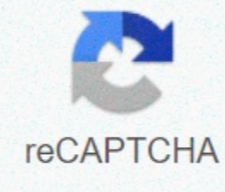**Continue**

Stats modeling the world chapter 16 answers

Chapter 16: Random Variables Basic Vocabulary: random variable- a value based on the result of a random event. random variables are marked with a capital letter such as the discrete random variable X. when you can list all the results. (the insurance company's results were $10,000 if you died that year, $5000 if you're permanently disabled that year and $0 if that's not the case.) continuous random variable- a random variable that can receive any numeric value within a range of values. the range can be infinite or delimited to one or both ends. standard deviation-the standard deviation of a random variable describes the spread in the model and is the square root of the expected variance- A theoretical long-term mean value of a random variable. The center of his model. Marked E(X), it is found summing up the products of variable vaules and probabilities. Symbol E(X)- for the expected value V(X)-symbol for variance V(X)=SD^2 : Calculator Skills 1-VarStats L1, L2- located below stat calc, 1 Var-Stats will only display the information in the list of 1 variables found in STAT EDIT. Putting L1, L2 after 1-Var-Stats will show us the mean, standard deviation, etc. L1 and L2 data in STAT EDIT. 1. What does random variable mean? A value based on the result of a random event 2. Explain the difference between a discrete random variable and a continuous random variable. A discrete random variable is a variable that we can list all possible results (such as the example in the book- 10,000/5,000/0). If we can't do that, then it's called a continuous random variable. 3. What information does a probability model give? The probability model gives all possible values and chances to display. 4. What is the expected value of a random variable? The expected value of a random variable is its theoretical long-term mean, the center of its model. Marked mew or E(X), it is found by summing up the products of variable values and probabilities: mew=E(X)=sum(x)*P(X=x) see equation listed in pg 311 for a better idea. 5. How do you calculate the expected value of a random variable? multiply each possible value with the probability of it happening and find the sum of 6. Explain the difference between notes and . 7. Suppose = 5 and = 10. According to media rules, what is it? According to the rules of the media, it's 8. Suppose = 2. According to media rules, what is it? 9. Explain how to calculate the variance of a discrete random variable X using the formula . Variety = Standard deviation ^ 2 10. Given the variance of a random variable, explain how standard deviation. SD(X)= square root(variance) 11. Assume that both X and Y are independent random variables. According to the rules on fluctuations, what is it? What's that? 12. Suppose . According to the rules on fluctuations, what is it? What is it? back to AP Statistics Home 3rd Edition David E. Bock, Paul... 4th Edition David E. Bock, Paul ... 2nd Edition David E. Bock, Paul ... 5th Edition David E. Bock 3rd Edition David E. Bock, Paul ... ...

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