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a particular company are defective if circuit boards are randomly selected for testing the probability that the number of circuit boards inspected until a defective board is found is greater than 10 is a 1 024 107 b 5 12 107 c 0 1829 one question asking students to calculate and interpret a confidence interval for a proportion and one for a mean use old ap questions if possible consider having a follow up question part b for each confidence interval here are some options for your follow up question chapter 5 calendar 5 1 blank notes filled in notes 5 1 powerpoint 5 2 blank notes filled in notes 5 2 powerpoint 5 3 blank notes filled in notes 5 3 powerpoint chapter 5 simulation worksheet key two way table tree diagram or venn diagram worksheet key chapter 5 review worksheet key chapter 5 optional mc practice key the sample distribution of  $\bar{x}$  confidence interval conditions shape normal condition if the population distribution is normal so is the sampling distribution of  $\bar{x}$  or clt  $n \geq 30$  center the mean of the sampling distribution of  $\bar{x}$  is the same as the unknown mean  $\mu$  of the entire population thus  $\mu_{\bar{x}} = \mu$  spread the  $\sigma_{\bar{x}} = \frac{\sigma}{\sqrt{n}}$  condition is met and  $\sigma$  this free textbook is an openstax resource written to increase student access to high quality peer reviewed learning materials this free textbook is an openstax resource written to increase student access to high quality peer reviewed learning materials created date 2 25 2014 12 26 02 pm test8b test8d test 9a test 9d test 10b test 10c test 11a test 11c test 12d test 12c test 13a test 13b test 14a test 14c assessments are available to preview prior to test day students who print out tests and take time to work through the problem set in advance typically perform much higher than those who do not name adam marsh a random sample of 49 pens is tested and the mean operating time is found to be 188 hours with a standard deviation of 6 hours create a 95 confidence interval for the true mean time of all pens the head manufacturer of the company claims that this mean will operate at a mean of 190 hours does the company s claim seem justified ap statistics exam test 8b this exam is on probability chapter 8 for most courses it has both multiple choice and free response it contains questions and answers the score on this exam is an a and specifically 45 50 from a very strict class and will be a very good example of the language need microsoft powerpoint chapter 8b fundamentals of statistical analysis classification of models in terms of random variables univariate bivariate multivariate in terms of parameters one parameter model two parameter model three parameter model examples univariate with two parameters normal distribution univariate with one parameter preface the quality of the data produced by the department of statistics dos research and statistics units rsus and government agencies must be of a high standard to instil trust and confidence among the public and policy makers the purpose of this handbook is to provide best practices on statistical processes to achieve better data quality seasonal adjustment introduction to seasonal adjustment of time series data quiz seasonal adjustment is a process of using analytical techniques to estimate and remove seasonal and calendar effects which may conceal and distort the true underlying movement of an economic time series start the quiz international classifications access quick links to international economic and social classifications learn more about the statistical standards classifications concepts and methods adopted by singapore department of statistics as well as other international classifications 1 1 definitions of statistics probability and key terms 1 2 data sampling and variation in data and sampling 1 3 frequency frequency tables and levels of measurement 1 4 experimental design and ethics 1 5 data collection experiment 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