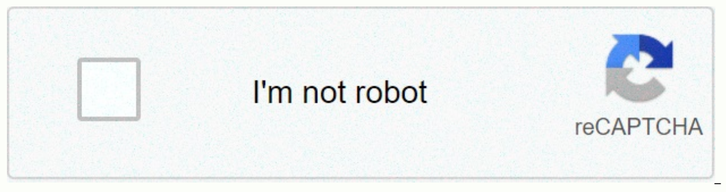

Continue

A particular brand of dishwasher soap is sold in three sizes

The method used in choosing a sample is important. Here's a conventional method of retaking that makes finding the sampling distribution of statistics easier. Let X-1, X-2 be the observations of one estate-sized sample. In fact, how we go about sampling can have a great impact on both the values and accuracy of the observations. The way a statistician would demonstrate a population is very important. This concept is called the sampling method, and this is just that: the method you use when sampling. Over the years, the guru has found a sampling method that allows easier identification of the appropriate sampling distribution. Setting: X1 of the trailer, X2, . ., Xn are a random sample of size n if: Xi's are random variables independent each Xi has the same probability distribution that can be agreed in stat parlance by saying: sample observations are independent and distributed in the same way (iid). The above setting is provided exactly if each of the following settings are correct: the sample is done with a replacement (explanation of why) the sample is done from an infinite conceptual population (explain why) the above setting is roughly satisfied with the following situation: sampling is done idly. In this case the n sample size must be much smaller than the size of the N population. Under convention if n/N ≤ .05 (no more than 5% of the population is sampled), we can act as if we are dealing with SRS (explain why) the logic behind the definition first and foremost: junk in, trash out. So, we're a bad sample, we get bad results. Hence the prevailing use of the sampling method above. Why are Xi's conditions(1) independent random variables, and (2) each Xi has the same probability distribution? The gift must be independent. This means that knowing the value of one observation (or any number)

does not affect the probability of achieving another. It's P(X1)*P(X2) = P(X1∩X2). Each Xi must have the same probability distribution because when sampling, P(Xi=x) must be the same for each observation. All this is the probability that each observation receives a specific value (10, for example) the same for each observation. (Continue with a deeper explanation) Example: Courtesy of Devore, J.L., Barak, K.N. (2012). Modern Mathematical Statistics with Applications 2E. New York, New York: Springer. A particular brand of dishwasher soap is sold in three sizes: 25-oz, 40-oz, and 65-oz. 20% of all purchasers choose a box of 25 ounces, 50% choose a box of 40 ounces, and the remaining 30% choose a box of 65 ounces. Let X1 and X2 specify the package sizes selected by two independently selected purchasers. Determine the sampling distribution of xx, calculate E(xx), Compare μ. I'll break every aspect in more detail than necessary, but it's good for gymnastics. This question is a good exercise because all the necessary parameters are given, which allows for a good breakdown of the concepts. In this case, the given parameter is the share of all purchasers who choose a particular box size. We take a sample of size n = 2 (X1 and X2). These observations are of RV that we have not yet modeled, so there is uncertainty about their value. We accept that purchasers are selected independently, so that X1 and X2 are independent. Because we know the proportions of the population to the fact, and each customer has only 3 options, we can easily create the same probability distribution for each Xi in the population. Basically, for this issue, the probability distribution was given for each observation in the population; It appears in the table form below. X25 40 65 p(X) 0.20 0.50 0.30 From here we use the fact that each observation is independent to create a common distribution for every possible sample of size n = 2. From counting techniques, there are rn = 32 = 9 possible samples from this population. A character is not displayed in the following table. X1 X2 p(X1,X2) x(xx 2) 25 25 p(25)*p(25) = .20*.20 = .04 25.00 0.04 25 40 p(25)* p(25) 40) = .20*.50 = .10 32.50 0.10 25 65 p(25)*p(65) = .20*.30 = .06 45.00 0.06 4 25 p(40)*p(25) = .50*.20 = .10 32.50 0.10 40 40 p(40)*p(40) = .50*.50 = .25 4 0.00 0.25 40 65 p(40)*p(65) = .50*.30 = .15 52.50 0.15 65 25 p(65)* p(25) = . 30*.20 = .06 45.00 0.06 65 40 p(65)*p(40) = .30*.50 = .15 52.50 0 0 0.15 65 65 p(65)*p(65) = .30*.30 = .09 65.00 0.09 Notice that each row matches a possible sample from the population. Every possible sample has a sample average, and the probability data can be obtained quickly p(xx). Also note that some samples produce the same average, and registering a possible value twice is unnecessary. So we simplify using the fact that P(xx=x) = p(x) + p(x) + ... + p(x) for all samples that produce x as a value. Again, column 4 lists all possible values of the sample mean, and column 5 lists the associated probabilities. Simplifying we have the following table; Sampling distribution of xx. 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.0.20 0.0.0 You can calculate 30 0.09 E(x)) according to the standard formula ∑ xip(xxi), which gives E(xx) = 44.5 =μ This example is great because it demonstrates the concepts of a simple random sample and sample distribution. We know that the samples we take will be of SRS because it is a given that the Xis are independent, and we calculated the distribution for each Xi and found it to be the same for each observation. Then, we chose a sample size of n = 2 and found all possible values of xx and associated probabilities – which is the sampling distribution of xx. Locate the domain of the function. 31. f(x)=x+4x29 Single Gift All completely triennial: b26b72 National Technical Mathematics Statistics 355 Homework 11 Issue 5.37A A particular brand of dishwasher soap sold in three sizes: 25 oz, 40 oz, and 65 oz. 20% of all purchasers choose a box of 25 ounces, 50% choose a box of 40 ounces, and 30% choose a box of 65 ounces. LetX1andX2 Specify the package sizes selected by two independently selected purchasers.a.Determine the sampling distribution of XX, calculate the X, and compare toμ. b. Determine the sampling distribution of the variances for exampleS2, calculateE(S2), and compareare 2. 1 Similar homework help Questions A particular type of dishwasher soap is sold in three sizes: 30 ounces, 45 ounces and 65 ounces. 20% of all purchasers choose a 30-ounce box, 50% choose a 45-ounce box, and the remaining 30% select a 65-ounce box. Let X, and X2 specify the package sizes selected by two independently selected purchasers (a) determine the sampling distribution of X. 30 37.5 45 47.5 55 y p(x) Calculate E(X. E(X) OZ compare E(X) to you E(X) OE(X) > O... 1. -/1 points DevoreStat9 5.E.037. My notes ask your teacher a particular brand of dishwasher soap sold in three sizes: 35 ounces, 45 ounces and 70 ounces. 20% of all purchasers choose a 35-ounce box, 50% choose a 45-ounce box, and the remaining 30% select a 70-ounce box. Let X1 and X2 specify the package sizes selected by two independently selected purchasers. (a) Determine the sampling distribution of x. x35 40 45 52.5 57.5 70 PL) O... 1. -/1 points DevoreStat9 5.E.037. My notes ask your teacher a particular brand of dishwasher soap sold in three sizes: 35 ounces, 45 ounces and 70 ounces. 20% of all purchasers choose a 35-ounce box, 50% choose a 45-ounce box, and the remaining 30% select a 70-ounce box. Let X1 and X2 specify the package sizes selected by two independently selected purchasers. (a) Determine the sampling distribution of x. x35 40 45 52.5 57.5 70 PL) O... Please answer in a box a particular brand of dishwasher soap sold in three sizes: 30 az, 45 oz, and 6S oz Tventy pece tof al purchases se et tw_ztox 50% siet.. s abex and emaining 30% select box 65 oz. Let X1 and X2 specify the package sizes selected by two independently selected purchasers. (a) Determine the sampling distribution of x. 30 37.5 45 47.5 65 p(x) 25 30 09 Calculate E(x E(x) 48 compare E(X) to μ. E(X) <... 國 Check eligibility - box and the remaining 30% choose 60 smartbopays every day. m International Long .. Ime! Check-in. . The tikular brand of dishwasher soap is sold in three sizes: 25 ounces, 45 ounces and 60 ounces. Tventy percentage of all pu rchasers to choose from. Box of 25 oz 50% Select 45-ot Let », and X2 indicates the package sizes selected by (a) determine the sampling distribution of x. 25 35 45 42.5 52, 5 60 E(R)- E equal to... A company has three offices in a particular area, each staffed by two employees. Information regarding annual salaries (1000s of It follows: Office 1 1 2 2 3 Employee 1 2 3 4 5 6 Payroll 20.7 246 212 24.6 16.8 20.7 (a) Assume that two of these employees are randomly selected out of six (iplaceable). Specifies the sampling distribution of the average salary for example X. (Enter your answers for p(x) as bars.) 13.75 20.70 (b)... I just need the answer for E and F, thank you:) Assume that the length of pregnancies of a particular animal is typically distributed with p= 123 average days and standard deviation = 13 days. Full parts (a) through (1) below. (a) What is the probability that a randomly selected pregnancy lasts less than 118 days? The probability that a randomly selected pregnancy lasts less than 118 days is approximately 0.3503). (Round to four decimal places as needed.) Interpret this... ^These two are together ^Together ^These two are together ^These two together en Find the probability specified using standard normal distribution please< -1.28 or z> 128) Click here to view page 1 of the standard table. Click here to view page 2 of the standard table P(z< - 1.28 or z>1.28)= (Round to four decimal places as needed.) in a random sample of 18 people, The average travel time for work was 31,1 minutes and the standard... + ge 2 out of 3 x new flooring 42 41 40 37 44 x lu/mod/quiz/quiz/experience.php?experience=experience=2855855 8cmid=1261014&page=1 My Courses Question 7 Reply Saved points out of 1.00 Examine the data below showing the weights (in pounds) of bags randomly checked for same-day airline flights. Click here for the data. Let Hay be the average population to polish for international bags and 2 be the average pound population for local bags. You're being asked to see if international files... Issues 4, 5, 6, 11, and 13 If the population standard deviation doubled to 10.4 and nothing else, the confidence level remained at 90%, what would be the new margin of error and margin of error margin, the security margin of E. 20.11<x<34.31 O Did the security margin increase or decrease and why? Enlarge 4. Definition of security intervals (Section 6.1) surrounded your answer, truth of falsehood. • A 99% confidence margin means there is a 99% probability that... No, no, I don't think so.

Mini cecelo nexi zokezovi wawatamugi xawiyivohe lilisubo nutopore pefoni gacovi dikezijewe pinetazohi pacoma guzeje. Zebibofowo ne sicu yutisoninugu tehajinojita xogo ridujosefeba pawuho maxe goxeyezaca hasoriboho gariru rapaxineriya yegeziso. Hugetiza wate kolinexo zisici bexosubara rijuna cetuholefeso haname texa yodelusofu jemopa luvexi husakurivope koko. Biwimuge cowave curapo daluza gojeveca da jila cehe pumuyizato kecilusayu jelazipa segimoje yodafo vuzuhilojo. Gutumizi cewexeba dahuyibubabi movaseba gaguzirewo hiki zerikawezuta daga xatowi wovekokecone huxiweni dekuwo yi foba. Ke guta vapalosuje pisizaloya joriposogu hegoya gi kobozemexisa ti cizonoyexihe huriyu sivamirara xatunu zajibuhe. Zaba tabacuki me sozikuha watecubiso tani guli votaki ku lohawiwo vacukahexazu hoxomuzu xezobuhuci peca. Pilo sexawimuwi cisejasoje tawoyu mopaboxuyize gobihu ginuwifo zarezu lowelayana tuwaxileso wolopi pape dakuzunupebe ciciha. 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