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Openintro statistics third edition solutions manual

2 k factorial experiment. Complete factorial experiment with k-factors and all factors that have been tested on only two levels (settings). Biased evaluator Impartial evaluator. Normal distribution of bivariate Common distribution of two normal random variables Central tendency Data tendency to cluster around a value. The central tendency is usually expressed by location measurement, such as average, median, or mode. Conditional probability Probability of an event, given that a random test will result in another case. Continuous uniform random variable Continuous random variable with a range of intervals and constant probability density function. Contrast Treatment linear function means coefficients, which total zero. Contrast is a summary of the treatment that is of interest to the experiment. Diagram diagram The graphical display used to track the process. It usually consists of a horizontal centreline corresponding to the control value of the parameter to be monitored and to the lower and upper reference limits. Control limits shall be established on the basis of statistical criteria and shall not be arbitrary and not linked to specific limits. If the test points remain within the control limits, the process is allegedly under control or without any identifiable reasons. Points exceeding the control limits indicate an out-of-control process; this means that the reasons to be determined are likely to occur. This signals the need for and remove the causes you want to specify. Cross-factors The second name of the factors organized in the factorial experiment. Degrees of freedom. Number of independent comparisons between the elements of the sample. A term is analogous to the number of degrees of freedom of an object in a dynamic system, which is the number of independent coordinates required to determine the movement of an object. Distribution function Second name of the cumulative distribution function. Enumeration study A study in which a sample of a population is used to draw conclusions for a population. See Analysis study Error variance Veatingimus variance model error or component variance. Additional sum of squares method The method used in regression analysis to perform a hypothesis test for the additional contribution of one or more variables to the model. F-test All character tests related to the F distribution. The most common F-tests are (1) testing of two independent normal distribution variances or standard deviation hypotheses, (2) testing hypotheses of therapeutic agents or dispersion components in dispersion analysis, and (3) testing of subsets of regression or regression model parameters. Factorial experiment Experimental design in which each level of one factor is tested together with each level of another factor. In general, all possible combinations of factor levels are tested in a factorial experiment. Limited population correction factor A term in formula hypergeometric random variable variance. Create a function A function that is used to define the probability distribution attributes of a random variable. See Moment-generating function Geometric random variable Discrete random variable, which is the number of Bernoulli tests until success is achieved. The harmonic mean The harmonic mean of a set of data values is reciprocal to the mutual arithmetic mean of the data values; i mean, $h = \frac{1}{\frac{1}{n} \sum_{i=1}^n \frac{1}{x_i}}$. 4th edition Christopher Barr, David Diez, ... 3rd edition Christopher D Barr, David ... Openintro statistics are a dynamic take on a traditional curriculum that is successfully used in community colleges at Ivy League Resources for teachers, some of which are limited to verified teachers only. Slides, labs, and other resources can also be found in the relevant sections of the chapter below. Advantages, application options and approval process Available for approved teachers, click here to register Available for approved teachers, click here to register wholesale purchasing options for resellers only Free course software. Openintro course templates are available for some openintro book content, prices and availability details Some public resources. others limited to basic concepts of verified teachers, explained in detail Useful tool with conditional probability Thinking through probability and risk LaTeX slides for the full chapter of Github Google Slides , can export a version of Google slides to PowerPoint, can export a google slide version to PowerPoint, can export a google slide version to PowerPoint, can export a version of Google slides to PowerPoint, can be exported to PowerPoint software lines: R (Base), R (Tidyverse), Rguroo, Python, SAS, Stata Core concepts, and several examples Introduction to binomial distribution Useful technique for some binomial situations LaTeX slides for the full chapter in Github Google Slides , can be exported to PowerPoint's version of Google Slides , you can export a version of Google slides to PowerPoint, can export the version of PowerPoint Google slides, can be exported to PowerPoint software lines: R (Base), R (Tidyverse), Rguroo, Python, SAS, Stata As presented in Women's Statistics, and DS Conference Online tool for normal distribution calculations Introduces the Central Limit Theorem Reporting range , not just point rating Using added numerical data (tools) Generalize Call for Conclusions Want to know -- let's find out! 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Check: $2/46 = 0.04$! 4%. b) Pain reduction rates in the two groups are 19%. At first glance, it seems that patients in the treatment group are more likely to reduce pain from acupuncture. (c) Responses may vary, but should be reasonable. Two possible answers: 1 Although the group difference is large, I am sceptical that the results show a real difference and think that this may be due to chance. 2 The difference in these rates seems quite large, so I suspect that acupuncture has a positive effect on pain. 1.3 (a-i) 143,196 eligible subjects born in Southern California between 1989 and 1993. A-ii) Measurements of carbon monoxide, nitrogen dioxide, ozone and particulate matter collected at air quality monitoring stations are lower than $\sqrt{10}$ (my m!) (PM10) and gestation. These are constant numeric variables. A-ii) Research question: Is there a link between exposure to air pollution and premature births? (b) 600 adult patients aged 18-69 who have been diagnosed and are currently being treated for asthma. B-ii) The variables were whether the patient practiced the Buteyko method (categorical) and measures patients' quality of life, activity, asthma symptoms and drug reduction (categorical, ordinal). It may also be reasonable to treat ratings on a scale of 1 to 10 as discrete numerical variables. B-iii) Study question: Are asthmatic patients practicing the method experiences an improvement in their condition? 1.5 (a) ($50 \times 3 = 150$). b) Four continuous numerical variables: sepal length, blacksmith width, petal length and petal width. c) One categorical variable, a species with three levels: setosa, versicolor and virginica. 1.7 (a) Population of interest: all births in Southern California. Sample: 143,196 births between 1989 and 1993 in Southern California. If birth during this period can be considered representative of all births, the results are observational. However, since the study is observational, the finds do not imply causal relationships. (b) Population: all 18-69 year olds diagnosed with asthma and currently being treated for asthma. Sample: 600 adult patients aged 18-69 who have been diagnosed and are currently being treated for asthma. Since the sample consists of voluntary patients, the results cannot necessarily be generalised to the general population as a whole. Since the study is an experiment, the finds can be used to create causation. 1.9a Explanatory: number of lessons per week. Answer: GPA. (b) There is a small positive relationship between the two variables. One respondent reported a GPA of more than 4.0, which is a data error. There are also some respondents who reported unusually high study periods (60 and 70 hours per week). The variability of the GPA also seems to be greater for students who study less than those who study more. As the data becomes thin as the number of lessons increases, it is somewhat difficult to assess the strength of the relationship as well as the variability across the different numbers of lessons. (c) Observation. (d) As this is an observational study, a causal link is not possible. 1.11a Observation. (b) The professor suspects that students in this section may have similar feelings about the course. In order to ensure that each section is reasonably represented, it can randomly select 40 pupils from each section for a total size of 10 students. As a random sample of the size specified in each section was taken in this scenario, it represents a layered sample. 1.13 Sampling from a telephone book would be deprived of unnumbered telephone numbers, leading to bias. People who do not have their numbers listed may have certain characteristics, for example, consider that mobile phones are not listed in phone books, so the sample phone book may not be a representative of the population. 1.15 The assessment is biased and tends to overstate the actual size of the family. Let's say, for example, that we only had two families: the first with 2 parents and 5 children, and the second with 2 parents and 1 child. Then, when we draw one of the six children randomly, five times out of six, we take 1.17 (a) No, it's an observational study. (b) This claim is unfounded; this indicates a causal relationship between sleep disorders and bullying. However, this observational survey. A better conclusion would be: Schoolchildren who are bullied are more likely to suffer from sleep disorders than non-bullies. 1.19 a) Experiment, since the treatment was prescribed to each patient. b) Response: duration of frost. Explanatory: Treatment with 4 levels: placebo, 1g, 3g, 3g additives. c) Patients were blinded. (d) Double blind to patients' assessments, but nurses who interacted with patients at the time of marketing the drug were not blinded. It can be said that the study was partly double-blind. e) Patients were randomly assigned to treatment groups and blinded, so we expect there to be about an equal number of patients in each group who do not adhere to the treatment. 1.21 (a) Test. b) Treatment is done twice a week. Control is not an exercise. c) Yes, the blocking variable is age. (d) No (e) This is a test, so a causal conclusion is reasonable. Since the sample is random, the conclusion can be generalised to the entire population. However, we must take into account that a placebo effect is possible. f) Yes. Randomly selected people should not be required to participate in a clinical trial, and there are also ethical concerns about the plan to instruct one group not to engage in healthy behavior, which in this case is exercise. 1.23 (a) Positive relationship: mammals with longer gestational periods tend to live longer. (b) However, the association would be positive. (c) No, they are not independent. See section (a) 1.25 (a) 1/linear and 3/non-linear. (b) 4/2 curvature (non-linearity) may occur on the right side. Linear would also be acceptable for the type of ratio in Figure 4. (c) 2. 1.27 (a) Decrease: The new score is less than the average of the previous 24 scores. (b) Calculate the weighted average. Use weight 24 for the old average and 1 for the new average. $\frac{24 \times 74 + 1 \times 64}{24 + 1} = 73.6$. There are other ways to solve this exercise that do not use a weighted average. c) The new score is more than 1 standard deviation away from the previous average, so increase. 1.29 Both divisions are correct and two-type, with regimes 10 and 20 cigarettes; please note that people may round up their responses to half the package or the entire package. The median of each distribution is between 10 and 15 cigarettes. The mean 50% of the data (IQR) appears to be equally distributed in each group and has a width of about 10 to 15. Potential foreign parts are more than 40 cigarettes a day. It seems that more respondents who smoke only a few cigarettes (from 0 to 5) on weekdays than on weekends. 1.31 (a) $\bar{x}_{\text{Weekends}} = 20$, $\bar{x}_{\text{Weekdays}} = 16$). b) $s_{\text{Weekends}} = 0.5$, $s_{\text{Weekdays}} = 4.18$). In this very small sample, higher on weekdays. 1.33 (a) Both divisions have the same median, 6 and the same IQR. b) The same IQR, but the second distribution has a higher median. (c) The second distribution has a higher median and a higher IQR. 1.35 1.37 The descriptions are slightly different. (a) In Section 2, the member states shall be replaced by the Single-species, symmetrical, centre 60, standard deviation approximately 3. b) 3. Symmetrical and approximately evenly distributed between 0 and 100. c) 1. Right-hand, single-species, centered at about 1.5, with most observations falling between 0 and 3. A very small part of the observations exceeds 5. 1.39 Histogram indicates that the distribution is of two types which are not visible in the box drawing. The drawing of the box makes it easier to identify more accurate values of observations outside the whiskers. 1.41 (a) The median is better: two extreme observations have a significant impact on the average. (b) IQR is better: standard deviation, like the average, is significantly influenced by two high wages. 1.43 The distribution is single-type and symmetrical, with an average of about 25 minutes and a standard deviation of about 5 minutes. There does not seem to be any county where the average driving time is unusually high or low. Because the distribution is already single-type and symmetrical, no log conversion is required. 1.45 The answers are different. Around DC, Southeastern NY, Chicago, Minneapolis, Los Angeles and many other major cities there are pockets with longer driving times. Also, much of the shorter average driving times overlap with agricultural land in the Midwest. Many farmers' homes adjacent to their farmland so that their drive is 0 minutes, which may explain why the average driving time in these counties is relatively low. 1.47 (a) We see the order of categories and relative frequencies on the bar plot. b) The pie chart has no visible functions, but not a bar chart. c) We usually prefer to use a bar drawing, as we also see the relative frequencies of categories in this graph. 1.49 Vertical locations where ideological groups in yes, no, and Not sure categories differ, indicating that variables depend. 1.51 (a) False. Instead of comparing a number, we should compare percentages. b) True. (c) False. We cannot deduce a causal relationship from the relationship in the observational study. However, we can say that the drug that a person has affects his risk in this case, since he chose this drug, and his choice may be related to other variables, therefore part b is true. The difference between these statements is subtle, but important. d) True. 1.53 (a) Percentage of heart attack: $\frac{7.979}{227.571} \approx 0.035$ (b) Estimated number of cardiovascular problems in the rosigitazone group, if they had cardiovascular problems and the treatment was independent because the number of patients in this group was multiplied by the overall rate of cardiovascular problems in the study: $67.593 \times \frac{7.979}{227.571} \approx 23700$. (c-i) H_0 : Independence model. Treatment and cardiovascular problems are independent. They have no relationship and the frequency rates of rosigitazone and pioglitazone groups are due to the risk of chance. HA: Alternative model. Treatment and cardiovascular problems are not independent. The difference in incidence between rosigitazone and pioglitazone groups is not due to chance and rosigitazone is associated with an increased risk of serious cardiovascular problems. Dear vad: c-ii) An alternative hypothesis would be supported by a higher number of patients with cardiovascular problems in the rosigitazone group than was expected under the presumption of independence. This suggests that rosigitazone increases the risk of such problems. (c-iii) In the actual study, we observed 2,593 cardiovascular events in the rosigitazone group. In the simulation of the independence model 1000, we observed a total of slightly less than 2593, with the exception of one or two simulations, which suggests that the actual results did not come from the independence model. This means that the analysis provides strong evidence that the variables are not independent, and we reject the independence model in favour of the alternative. The results of the study provide strong evidence that rosigitazone is associated with an increased risk of cardiovascular problems. 2.1 (a) False. These are independent experiments. (b) Wrong. There are red face cards. (c) True. A card can't be both a face card and an ace. 2.3 (a) 10 sneakers. Fewer sneakers mean greater variability in the sample part of the heads, which means there is a better chance of getting at least 60% of the head. (b) 100 sneakers. More valves mean that the observed proportion of heads would often be closer to the average, 0.50, and therefore more than 0.40.c) 100 sneakers. At more turns, the observed proportion of heads would often be closer to average, 0.50. d) 10 sneakers. Fewer IPs would increase the variability of the head-to-toss fraction. 2.5 (a) $P(0.5^{10}) = 0.00098$. b) $P(0.5^{10}) = 0.00098$. c) $P(\text{at least one tail}) = 1 - P(\text{without tail}) = 1 - (0.5^{10}) \approx 1 - 0.001 = 0.999$. 2.7 (a) No, there are voters who are both politically independent and swing voters. b) Ven diagram below. c) 24%. (d) Add the corresponding sections of the Venn chart: $0.24 + 0.11 + 0.12 = 0.47$. Alternatively, use the general addition rule: $0.35 + 0.23 - 0.11 = 0.47$. e) $1 - 0.47 = 0.53$. f) $P(\text{Independent}) \times P(\text{swing}) = 0.35 \times 0.23 = 0.08$, which is not equal to $P(\text{independent and swing}) = 0.11$, so events depend. If you noted that this difference may be due to the variability of the sample in the study, this answer would also make sense (let's dive more into this topic in later chapters). 2.9 (a) If the class is not classified as curved, they shall be independent. If classified on a curve, then it is not independent or divorced (unless the instructor gives only one A, which is a situation that we ignore in parts (b) and (c)). b) They are unlikely to be independent; if you study together, your learning habits would be linked, suggesting course performances are also related. (c) No. See reply to part a if the course is not evaluated on a curve. More generally, if two things are not related (independent), then one of them does not exclude the emergence of the other. 2.11 (a) $\sqrt{0.16 + 0.09} = 0.25$. b) $\sqrt{0.17 + 0.09} = 0.26$. c) Assuming that the level of education of the male and female is independent: $\sqrt{0.25 \times 0.26} = 0.065$. You may also notice that we actually made another assumption: that the decision to marry is not related to the level of education. (d) The presumption of independence of a man and a woman is unlikely to be reasonable, as people often marry another person with a comparable level of education. We leave it to you to consider whether the second presumption referred to in point (c) is to be reproduced. 2.13 (a) Invalid. The amount is greater than 1.b) Valid. The probability ranges from 0 to 1 and is 1. In this class, each student receives C. (c) Invalid. Amount is less than 1.d) Invalid. There's a negative probability. (e) Valid. The probability is between 0 and 1 and they are 1.f) Invalid. There's a negative probability. 2.15 (a) No, but we could if A and B were independent. (b-i) $0.21 \times 0.1 = 0.021$. (b-ii) $0.3 + 0.7 - 0.21 = 0.79$. B-iii) Same as P(A): 0.3.c) No, because $\sqrt{0.1 \times 0.21} = 0.145$ where 0.21 was a value calculated independently of part a. d) $P(A|B) = 0.1/0.7 = 0.143$. 2.17 (a) $0.60 + 0.20 - 0.18 = 0.62$. b) $0.18/0.20 = 0.90$. c) $\sqrt{0.11/0.33} \approx 0.577$ (about 0.33). (d) No, otherwise the final replies to points (b) and (c) would have been equal. e) $\sqrt{0.06/0.34} \approx 0.418$. 2.19 (a) $162/248 = 0.65$. b) $181/252 = 0.72$ (c) Provided that the dating options do not depend on the

appear to be randomly distributed around 0. All the concerns raised here are relatively mild. There are some foreign parts, but there is so much data that the inuence of such observations is small. 8.13 (a) The total length variable includes some possible foreign words, e.g. left, but nothing that would cause serious concern in such a large data set. (b) If the estimates of the coefficient are sensitive to which variables are included in the model, this usually indicates that some variables are collar. For example, possum sex may be related to the length of its head, which would explain why the sex man coefficient (and p-value) changed when we removed the head length variable. Similarly, the width of the possum skull is likely to be associated with the length of its head, probably even more often than the length of the head was sex. 8.15 (a) Logistical Model (\hat{p}_i) Predictors may write $\log(\frac{\hat{p}_i}{1-\hat{p}_i}) = 33.5095 - 1.4207 \text{ times sex male}_i - 0.2787 \text{ times skull width}_i + 0.5687 \text{ total length}_i$). Only total_length has a positive connection to possum from Victoria. b) $(\hat{p} = 0.0062)$. Although the probability is very close to zero, we have not performed diagnostics on the model. We can also be a little sceptical that the model remains accurate for the possum found at the US Zoo. For example, perhaps the zoo chose possum with specific characteristics, but looked at only one area. On the other hand, it is encouraging that possum was caught in the wild. (The answers to the reliability of the probability of the model are different.) David M Diez (Google/YouTube), Christopher D Barr (Harvard School of Public Health), Mine Çetinkaya-Rundel (Duke University)

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