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Cumulative ap practice test 4 statistics answers

5th edition of Daniel S. Yates, Daren... 6th edition of Daren S. Starnes, Josh... 3rd edition of Daren S. Starnes, Josh... 5th edition of Daniel S. Yates 6th Edition Daren S. Starnes, Josh ... Below are solutions for each HW task. Understand that these are ONE WAY to express answers and SHOULD NOT BE USED DIRECTLY INSTEAD OF YOUR OWN FORMULATION! If you have another explanation or do not receive the same answer, please check your work again and, if you are still confused, send me a message to Recall.4.14.24.3Ch. 4 AP Practice Test1.01.11.21.3Ch. 1 Exercise ReviewCh. 1 AP Practice Test Use the following information to respond to the following three exercises. The grocery store is interested in how much money, on average, their customers spend each visit in the product department. Using their store records, they draw a sample of 1,000 visits and calculate each customer's average spend on products. 1. Identify the population, pattern, parameter, statistics, variable, and data for this example. variable data on population parameters 2. What data is the amount of money spent on production per visit? quantitative-continuous quantitative-discrete 3. The study reveals that the median amount spent on products per customer visit in a sample is \$12.84. This is an example: Population Sample Parameter Statistics Variables 1.2: Data, Sampling, and Variations in Data, and Sampling Use the following information to respond to the following two exercises. The health club is interested to know how many times a typical member uses the club in a week. They decided to ask each tenth customer on a given day to complete a short survey, including information on how many times they have visited the club in the past week. 4. What kind of sampling design is this? cluster stratified simple random system 5. The number of visits a week is what kind of data? quantitative-continuous quantitative-discrete 6. Describe a situation where you would calculate a parameter, not a statistic.* * 7. The US federal government is conducting a survey of high school students on their plans for future education and employment. One question raises whether they plan to attend a four-year college or university within the next year. Fifty percent answer this question in the affirmative; fifty percent: variable data of parameter statistics 8. Imagine if the U.S. federal government had the resources to survey all high school students in the U.S. regarding their plans for future education and employment, and found that 50 percent planned to attend a 4-year college or university in the next year. This 50 percent example is: variable parameter statistics data Use the following information to respond to the following three exercises. A random sample study of 100 nurses working at a major hospital asked how old they were in the profession. Their answers are summarized in the following (incomplete) table. 9. Fill in the gaps in the table and round up your answers to two decimal places for relative frequency cells and cumulative relative frequencies. # Year Frequency Relative Frequency Cumulative Relative Frequency < 5 25 5-10 30 > 10 Empty 10. What proportion of nurses have five years or more of experience? 11. What proportion of nurses has ten years or less experience? 12. Describe how you can draw a random sample of 30 students from a lecture of 200 students. 13. Describe how you might draw a stratified sample of students from college, where the class layers are students (freshman, sophomore, younger or older). 14. The manager wishes to draw a sample, without replacement, of 30 employees from a workforce of 150. Describe how the chances of selection will change while drawing a pattern. 15. The manager of the department store shall decide to measure employee satisfaction by randomly selecting four departments and conducting interviews with all employees in these four departments. What kind of survey design is this? cluster stratified simple random system 16. The popular U.S. television sports program conducts a spectator survey to see which team they believe will win the NFL (National Football League) title this year. Viewers vote by calling the number shown on the television screen and telling the operator which team they think will win. Do you think those participating in this survey are representative of all football fans in America? 17. Two researchers studying vaccination rates independently draw samples from 50 children, aged 3 to 18 months, from a large urban area and determine whether they are up to date with vaccination. One researcher finds that 84 percent of the children in her sample are acoustic, and another finds that 86 percent in his sample are accumulated. Assuming they both followed the appropriate sampling procedures and calculated correctly, what is the likely explanation for this discrepancy? 18. High school increased the length of the school day from 6.5 to 7.5 hours. Students who wanted to attend this high school had to sign contracts promising to do their best in their schoolwork and comply with school rules; if they don't want to, they could go to another high school in the district. At the end of one year, students' performance on state tests increased by ten percentage points compared to the previous year. Does this prove an improvement that a longer school day improves student achievement? 19. You have read a newspaper article stating that eating almonds leads to increased life satisfaction. The research was conducted by the Almond Growers' Association and was based on a randomised study asking people about their consumption various foods, including almonds, as well as their satisfaction with different aspects of their lives. Does anything about this poll call into question its conclusion? 20. Why is there an undue problem in the polls? 1.3: Frequency, frequency tables and measurement levels 21. Calculate the middle mean of the following numbers and report your answer using one decimal place than is present in the original data: * * 14, 5, 18, 23, 6 1.4: Experimental design and ethics 22. The psychologist is interested in whether the size of the dishes (bowls, plates, etc.) affects how much students eat. It randomly assigns 100 students to one of two groups: the first is served a meal using normal-sized cutlery, while the second is served the same meal, but using dishes that it is 20 percent smaller than normal. It records how much food each group consumes. Identify the following components of this study. population sample experimental units explain variable response treatment variables 23. The researcher analyzes sat results (Scholastic Aptitude Test) over a five-year period and finds that male students score more on the math part on average, with female students achieving higher scores on the verbal part on average. He concludes that these observed differences in test performance are due to genetic factors. Explain how lurking variables may offer an alternative explanation for the observed differences in test scores. 24. Explain why it should not be possible to use a random task to study the health effects of smoking. 25. The professor conducts a telephone survey of the city population by drawing a sample of the numbers from the phone noun and for her assistants to call each of the selected numbers once to conduct a survey. What are some sources of bias in this study? 26. The professor offers additional credit to students participating in her research studies. What is the ethical problem with this method of recruiting subjects? 2.1: Stem and leaf charts (Stemplots), line charts, and bar charts Use the following information to respond to the following four exercises. The mean grades on the chemistry exam, rated on a scale of 0 to 100, were: * * 62, 64, 65, 65, 68, 70, 72, 72, 74, 75, 75, 76.78, 78, 81, 83, 83, 84, 85, 87, 88,

probability of water rationing is ten percent. However, in any given year the probability of water rationing is five percent. 4. What is the likelihood of drought and water rationing? 5. Which of the following is correct? Drought and water rationing are independent events. Drought and water rationing are mutually exclusive events. None of the above Do not use the following information to respond to the following two exercises: Suppose the research provided the following data: Favorite pie gender apple pumpkin pecan female 40 10 30 male 20 30 10 6. Suppose one individual was randomly selected. The probability that a person's favorite pie is an apple or that the person is male is $\frac{1}{2}$. 40 60 60 140 120 140 100 140 7. Suppose it's H0: Favorite pie and gender are independent. The P-value is $\frac{1}{2}$. $\frac{1}{2}$ = 0 1 0.05 Cannot be determined Use the following information to respond to the following two exercises: Let's say the probability of an adult watching the news at least once a week is 0.60. We randomly survey 14 people. Of interest is the number of people who watch the news at least once a week. 8. Which of the following statements is FALSE? $X \sim B(14, 0.60)$ Values for x are: {1,2,3, ..., 14}. $\mu = 8.4$ $P(X = 5) = 0.0408$ 9. Find the likelihood of at least six adults watching the news at least once a week. 6 14 0.8499 0.9417 0.6429 10. The next histogram will most likely be the result of sampling from which distribution? {} chi-square with df = 6 exponential uniformed binomials 11. Age campus day and evening students are known to be distributed normally. A sample of six daytime and evening campus students reported their age (in years) as: {18, 35, 27, 45, 20, 20}. What is the error related to the confidence interval of 90% of the true average age? 12. If a typically distributed random variable has $\mu = 0$ and $\sigma = 1$, then 97.5% of the population value lies above: Use the following information to respond to the following three exercises. the amount of money a customer spends in a single trip to the supermarket is known to have exponential distribution. Suppose the average amount of money a customer spends in a single trip to a supermarket is \$72. 13. What is the likelihood of one customer spending less than \$72 in one trip to the supermarket? 14. How much money would you expect the next five customers to spend in one trip to the supermarket (in dollars)? 15. If you want to find the probability that the median amount of money that 50 customers spend in one trip to the supermarket is less than \$ 60, distribution for use is: $N(72, 72)$ $N(72, 72)$ $N(72, 72)$ $Exp(72)$ $Exp(1/72)$ Use the following information to respond to the following three exercises: The amount of time it takes the fourth class to perform garbage is evenly distributed at an interval of one to ten minutes. 16. What is the likelihood that a randomly selected fourth-year-old takes more than seven minutes to take out the trash? 17. Which chart best shows the likelihood that a randomly selected fourth-timer takes more than six minutes to take out the trash given that he has already taken more than three minutes? {} 18. Should we expect a fourth-timer to take how long to get the trash out? Use the following information to respond to the following three exercises: At the beginning of the quarter, the amount of time a student waits in line in the campus cafeteria is usually distributed with a mean mean of five minutes and a standard deviation of 1.5 minutes. 19. What is the 90th percentile of waiting (in minutes)? 20. The median waiting time (in minutes) for one student is: 21. Find the probability that the average wait time for ten students is up to 5.5 minutes. 0.6301 0.8541 0.3694 0.1459 22. A sample is taken from 80 software engineers in Silicon Valley and found that 20% of them earn about \$50,000 a year. The point estimate for the true share of Silicon Valley engineers earning \$50,000 a year is: 23. If $P(Z \leq z) = 0.1587$ where $Z \sim N(0,1)$, α is equal: 24. The professor tested 35 students to determine their entry skills. At the end of the period, after completing the course, the same test was applied to the same 35 students in order to study their improvement. That would be a test: independent groups. two proportions. couples, dependent groups. exclusive groups. The math exam was given to all third graders who attend ABC school. Two random samples of the results were taken. with Boys 55 82 5 Girls 60 86 7 25. Which of the following correctly describes the results of the hypothesis test claims: There is a difference between the mean results received by girls and third grade boys at a level of 5% significance? Don't say no to H0. There is insufficient evidence to conclude that there is a difference in the middle grade. Don't say no to H0. There is sufficient evidence to that there is a difference in mean results. Resush H0. There's not enough evidence to conclude there's no difference in the middle grade. Resush H0. There is sufficient evidence to conclude that there is a difference in the mean grade. 26. In a survey of 80 men, 45 engaged in organized sport while growing up. Of the 70 women surveyed, 25 played organized sports while growing up. We want to know if the share of men is higher than the share for women. The correct conclusion is that: there is not enough information to conclude that the proportion for males is the same as the proportion for females. there is insufficient information to conclude that the proportion of men is not the same as the proportion for women. there is sufficient evidence to conclude that the proportion of men is higher than that for women. there is insufficient information to conclude. 27. From past experience, the statistics teacher found that the average score at half-term was 81 with a standard deviation of 5.2. This term, a class of 49 students had a standard deviation of 5 at half-term. Does the data suggest that we should reject the teacher's claim that the standard deviation is 5.2? Use $\alpha = 0.05$. That there is not enough information to solve the problem 28. Three loading machines are being compared. 10 samples were taken for each machine. On average, it took the machine 31 minutes to load the packages with a standard deviation of two minutes. On average, machine II took 28 minutes to load the package with a standard deviation of 1.5 minutes. It took the III machine an average of 29 minutes to load the package with a standard deviation of one minute. Find the p-value when testing that the average load times are the same. p-value is near zero p-value is close to one insufficient information provided to solve the problem Use the following information to respond to the following three exercises: The corporation has offices in different parts of the country. She gathered the following information on the number of bathrooms and the number of employees in seven locations: Number of employees x 650 730 810 900 102 107 1150 Bathroom number y 40 50 54 61 82 110 121 29. Is the correlation between the number of employees and the number of bathrooms significant? That there is not enough information to answer question 30. The linear regression equation is: $\hat{y} = 0.0094 - 79.96x$ $\hat{y} = 79.96 + 0.0094x$ $\hat{y} = 79.96 - 0.0094x$ $\hat{y} = -0.0094 + 79.96x$ 31. If the site has 1,150 employees, about how many bathrooms should it have? 69 91 91,954 We shouldn't be assessing here. 32. Suppose a sample size ten was collected, with $\bar{x} = 4.4$ and $s = 1.4$. H0: $\tau_2 = 1.6$ vs. Ha: $\tau_2 \neq 1.6$. Which chart best describes the test results? {} Sixty-four backpackers have asked the number of days since their latest backpacking trip. Number daje se u [link]: # dana 1 2 3 4 5 6 7 8 Frekvencija 5 9 6 12 7 10 5 10 33. Provedi odgovarajući test kako biste utvrdili je li raspodjela ujednačena. P-vrijednost je ≤ 0.10 . Nema dovoljno informacija koje bi zaključile da distribucija nije ujednačena. The p-value is ≤ 0.01 . There is sufficient information to conclude the distribution is not uniform. The p-value is between 0.01 and 0.10, but without alpha (α) there is not enough information There is no such test that can be conducted. 34. Which of the following statements is true when using one-way ANOVA? The populations from which the samples are selected have different distributions. The sample sizes are large. The test is to determine if the different groups have the same means. There is a correlation between the factors of the experiment. Practice Final Exam 2 Solutions Solutions 1. b. parameter. 2. a. 3. c. seven 4. c. 0.02 5. c. none of the above 6. d. 100 140 7. a. ≈ 0 8. b. The values for x are: {1, 2, 3, ..., 14} 9. c. 0.9417. 10. d. binomial 11. d. 8.7 12. a. -1.96 13. a. 0.6321 14. d. 360 15. b. $N(72, 72)$ 16. a. 3 9 17. d. 18. b. 5.5 19. d. 6.92 20. a. 5 21. b. 0.8541 22. b. 0.2 23. a. -1. 24. c. matched pairs, dependent groups. 25. d. Reject H0. There is sufficient evidence to conclude that there is a difference in the mean scores. 26. c. there is sufficient evidence to conclude that the proportion for males is higher than the proportion for females. 27. b. no 28. b. p-value is close to 1. 29. b. No 30. c. $y^{\wedge} = 79.96x - 0.0094$ 31. d. We should not be estimating here. 32. a. 33. a. The p-value is ≤ 0.10 . Nema dovoljno informacija koje bi zaključile da distribucija nije ujednačena. 34.c. Test je utvrditi imaju li različite skupine ista sredstva. Ovaj rad je licenciran pod Creative Commons Atribucijom 4.0 International License. Također možete besplatno preuzeti na 21.1 Atribucija: Atribucija:

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