

Relative Frequency = $\frac{\text{freq.}}{\text{sum of all freq.}}$

of classes = $\frac{\text{largest value} - \text{smallest value}}{\text{class width}}$

median = $\bar{x}$ ($\frac{n+1}{2}$)

population mean = $\mu = \frac{\sum x_i}{N}$

sample mean = $\bar{x} = \frac{\sum x_i}{n}$

population standard deviation =

$$\sigma = \sqrt{\frac{\sum (x_i - \mu)^2}{N}}$$

sample standard deviation =

$$s = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n-1}}$$

population variance = σ^2

sample variance = s^2

weighted average $\rightarrow$

$$\frac{(\text{midpoint}_1 \times \text{frequency}_1) + \dots + (\text{midpoint}_n \times \text{frequency}_n)}{\text{sum of all frequencies}}$$

population z-score = , sample z-score

$$z = \frac{x - \mu}{\sigma}$$

$$z = \frac{x - \bar{x}}{s}$$

IQR = $Q3 - Q1$

Lower fence = $Q1 - 1.5(IQR)$

Upper fence = $Q3 + 1.5(IQR)$

Correlation coefficient = $r =$

$$\frac{\sum \left[\left(\frac{x_i - \bar{x}}{s_x} \right) \left(\frac{y_i - \bar{y}}{s_y} \right) \right]}{n-1}$$

$$\hat{y} = b_1 x + b_0$$

$b_1 = r \left(\frac{s_y}{s_x} \right) = \text{slope}$

$b_0 = \bar{y} - b_1(\bar{x}) = y\text{-intercept}$

Coefficient of determination $R^2 = R^2 = \frac{\text{explained variation}}{\text{total variation}}$

Empirical Rule



Empirical Probability $\rightarrow$

$$P(E) = \frac{\text{frequency of } E}{\text{\# of trials}}$$

Addition Rule for Disjoint =

$$P(E \text{ or } F) = P(E) + P(F)$$

$\rightarrow$ NO COMMON OUTCOMES

Conditional Probability $\rightarrow$

$$P(E) = \frac{\text{\# ways } E \text{ can occur}}{\text{\# possible outcomes}} = \frac{N(E)}{N(S)}$$

Probability of Complements =

$$P(E^c) = 1 - P(E)$$

General Addition Rule: COMMON OUTCOMES (Not Disjoint)

$$P(E \text{ or } F) = P(E) + P(F) - P(E \text{ and } F)$$

Multiplication for Independent Events: $P(E) \cdot P(F)$

Conditional Rule $\rightarrow$

$$P(F|E) = \frac{P(E \text{ and } F)}{P(E)}$$

given $\rightarrow$

General multiplication Rule:

$$P(E \text{ and } F) = P(E) \cdot P(F|E)$$

Factorial Notation:

$$n! = n \cdot (n-1) \cdot (n-2) \dots$$

$$0! = 1 \quad 1! = 1$$

Baye's Rule:

$$P(E|F) = \frac{P(F|E) \cdot P(E)}{P(F)}$$

Combination:

$${}_nC_r = \frac{n!}{r!(n-r)!} \rightarrow \text{order does not matter}$$

Permutations:

$${}_nP_r = \frac{n!}{(n-r)!} \rightarrow \text{order does matter}$$

Random

Variable = RV

mean (Expected Value) of Discrete RV $\rightarrow$

$$\mu_x = E(x) = \sum [x \cdot P(x)]$$

Standard Deviation of Discrete RV $\rightarrow$

$$\sigma_x = \sqrt{\sum [(x - \mu_x)^2 \cdot P(x)]}$$

Binomial Probability Distribution Function:

$$P(x) = {}_nC_x \cdot p^x \cdot (1-p)^{n-x}$$

Ap Statistics Study Guide

Madhuri S. Mulekar, Princeton Review



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AP® Statistics Crash Course, For the 2020 Exam, Book + Online Michael D'Alessio, 2019-12-03 This Crash Course is a tightly written outline and summary of all that a student needs to be successful on the AP test in Statistics AP Statistics Research and Education Association, 1997-01-01 Get the AP college credits you've worked so hard for Our savvy test experts show you the way to master the test and score higher This new and fully expanded edition examines all AP Statistics areas including in depth coverage of univariate and bivariate data measures of dispersion sampling and hypothesis testing The comprehensive review covers every possible exam topic exploring data planning a study anticipating patterns and statistical inferences Features 6 full length practice exams with all answers thoroughly explained Follow up your study with REA's test taking strategies powerhouse drills and study schedule that get you ready for test day DETAILS Comprehensive up to date subject review of every AP Statistics topic used in the AP exam Study schedule tailored to your needs Packed with proven key exam tips insights and advice 6 full length practice exams All exam answers are fully detailed with easy to follow easy to grasp explanations TABLE OF CONTENTS About Research non graphing calculators are allowed only if they have the computational capabilities described previously The following however are not permitted powerbooks and portable computers pocket organizers electronic writing pads pen input devices or devices with typewriter style or QWERTY keyboards ABOUT THE REVIEW SECTIONS As mentioned earlier this book has a review chapter for each of the four topics covered on the exam The following are the four review chapters in this book that cover the topics on the AP Statistics Exploring Data Planning a Study Anticipating Patterns Statistical Inferences The review chapters provide a thorough discussion of the material tested on the exam By studying the review chapters and by taking the practice tests you can prepare yourself to score high on the AP Statistics exam SCORING THE EXAM The multiple choice section of the exam is scored by crediting each correct answer with one point and deducting one fourth of a point for each incorrect answer Unanswered questions receive neither credit nor deduction The free response questions are graded by readers chosen from around the country for their familiarity with the AP Program Each free response question is read and scored with the reader providing the score on a 0 to 4 0 being the lowest and 4 the highest scale The free response questions are scored based on the statistical knowledge and communication the student used to answer the question The statistical knowledge criteria include identifying the important concepts of the problem and demonstrating statistical concepts and techniques that result in a correct solution of the problem The communication criteria include an explanation of what was done and why along with a statement of conclusions drawn Once the free response questions have been graded by all of the readers the scores are converted The open ended questions count as 75% of the free response score the investigative task question counts as 25% SCORING THE MULTIPLE CHOICE SECTION For the multiple choice section use this formula to calculate your raw score
$$\text{Number Right} - \frac{1}{4} \text{Number Wrong} \times 1.4$$
 Raw Score round to the nearest whole number Note Do not include unanswered

questions in the formula

SCORING THE FREE RESPONSE QUESTIONS

For the free response section use this formula to calculate your raw score

Open Ended Questions	Investigative Task Question	Raw Score
5	1	75%

THE COMPOSITE SCORE

To obtain your composite score use the following method

Multiple Choice Raw Score	Free Response Raw Score	Raw Score
5	1	extremely well qualified
4	2	well qualified
3	3	qualified
2	4	possibly qualified
1	5	no recommendation

SCORES THAT RECEIVE COLLEGE CREDIT AND OR ADVANCED PLACEMENT

Most colleges grant students who earn at least a 3 college credit and or advanced placement You should check with your school guidance office about specific college requirements

STUDYING FOR YOUR AP EXAMINATION

It is never too early to start studying The earlier you begin the more time you will have to sharpen your skills Do not procrastinate Cramming is not an effective way to study since it does not allow you the time needed to learn the test material It is very important for you to choose the time and place for studying that works best for you Some students may set aside a certain number of hours every morning to study while others may choose to study at night before going to sleep Other students may study during the day while waiting on a line or even while eating lunch Only you can determine when and where your study time will be most effective But be consistent and use your time wisely Work out a study routine and stick to it When you take the practice exam s try to make your testing conditions as much like the actual test as possible Turn your television and radio off and sit down at a quiet table free from distraction Make sure to time yourself Complete the practice test s score your test s and thoroughly review the explanations for the questions you answered incorrectly However do not review too much during any one sitting Concentrate on one problem area at a time by reviewing the question and explanation and by studying our review s until you are confident that you completely understand the material Since you will be allowed to write in your test booklet during the actual exam you may want to write in the margins and spaces of this book when practicing However do not make miscellaneous notes on your answer sheet Mark your answers clearly and make sure the answer you have chosen corresponds to the question you are answering Keep track of your scores This will enable you to gauge your progress and discover general weaknesses in particular sections You should carefully study the reviews that cover the topics causing you difficulty as this will build your skills in those areas To get the most out of your studying time we recommend that you follow the Study Schedule It details how you can best budget your time

TEST TAKING TIPS

Although you may be unfamiliar with tests such as the Advanced Placement exams there are many ways to acquaint yourself with this type of examination and help alleviate your test taking anxieties Listed below are ways to help yourself become accustomed to the AP exam some of which may also be applied to other standardized tests Become comfortable with the format of the AP Examination in Statistics When you are practicing to take the exam s simulate the conditions under which you will be taking the actual test s You should practice under the same time constraints as well Stay calm and pace yourself After simulating the test only a couple of times you will boost your chances of doing well and you will be able to sit down for the actual test much more confidently Know the directions and

format for each section of the exam Familiarizing yourself with the directions and format of the different test sections will not only save you time but will also ensure that you are familiar enough with the AP exam to avoid anxiety and the mistakes caused by being anxious Work on the easier questions first If you find yourself working too long on one question make a mark next to it in your test booklet and continue After you have answered all of the questions that you can go back to the ones you have skipped Use the process of elimination when you are unsure of an answer If you can eliminate three of the answer choices you have given yourself a fifty fifty chance of getting the item correct since there will only be two choices left from which to make a guess If you cannot eliminate at least three of the answer choices you may choose not to guess as you will be penalized one quarter of a point for every incorrect answer Questions not answered will not be counted Be sure that you are marking your answer in the oval that corresponds with the correct item in the test booklet Since the multiple choice section is graded by machine marking the wrong answer will throw off your score

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