

# Ap statistics chapter 2 case closed answers

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**What is the hardest chapter in AP Stats?** Examiners' Reviews: Takeaways From Test Assessors “The most challenging units were 4 (Probability, Random Variables, and Probability Distributions) and 5 (Sampling Distributions). 5% of students answered every question about these units correctly, and 5% of students answered no questions about these units correctly.”

**How long do the longest 20% of pregnancies last?** (c) How long do the longest 20% of pregnancies last? The longest 20% of pregnancies last at least 280 days.

**between what approximate heights do the middle 95 percent of men fall?** 66 to 72 inches. The middle 95% of men's height's fall within 2 standard deviation of the mean. The mean is 69 inches, and the stdev is 2.5 inches. Two standard deviations from the mean in either direction is 3 inches, so the range of heights is 3 inches less than 69, and 3 inches more than 69 inches.

**What percentage of men have a height greater than 74 inches?** where  $x$  is the height,  $\mu$  is the mean, and  $\sigma$  is the standard deviation. Plugging in the values, we have  $z = (74 - 69) / 2.5 = 2$ . This means that the height of 74 inches is 2 standard deviations away from the mean. Therefore, approximately 5% of adult American men are taller than 74 inches.

**Is AP Stats or Calc harder?** AP Calculus is generally considered more rigorous than AP Statistics. It's typically taken by students pursuing STEM fields or those looking to challenge themselves mathematically.

**Is AP stats hard to get a 5?** Getting a 5 takes careful content knowledge, targeted practice and dedicated studying. Only around 14% earn the top score for the AP® Statistics exam. To get a 5, start studying ASAP® and focus on applying concepts to

specific situations.

**At what percentile is an IQ score of 150 AP stats?** A low IQ score is one with less than points. Hence, an IQ score of 150 is approximately at the 95th percentile.

**What percent of men are between 64 and 66.5 inches tall?** Conclusion: Therefore,  $16\% - 2.5\% = 13.5\%$  of men have heights between 64 inches and 66.5 inches.

**How to find the z-score?** There are three variables to consider when calculating a z-score: the raw score ( $x$ ), the population mean ( $\mu$ ), and the population standard deviation ( $\sigma$ ). To get the z-score, subtract the population mean from the raw score and divide the result by the population standard deviation.

**What percentile is a pregnancy that lasts 240 days?** Using technology: The command `normalcdf(lower: -1000, upper: 240,  $\mu$ : 266,  $\sigma$ : 16)` gives an area of 0.0521. Step 3: Answer the question. About 5% of pregnancies last less than 240 days, so 240 days is at the 5th percentile of pregnancy lengths.

**What is the average American male height standard deviation?** The heights of adult men in the United States are approximately normally distributed with a mean of 70 inches and a standard deviation of 3 inches. Heights of adult women are approximately normally distributed with a mean of 64.5 inches and a standard deviation of 2.5 inches.

**What z-score corresponds to the 20th percentile of the normal curve?**

**What percentage of men are taller than their wives?** Moreover, he found that only 3.8 percent of the couples were made up of a tall wife and a short husband . . . Fiona Macrae and Damien Gayle of the Daily Mail picked up this story and compared it to similar research on couples in the U.K, where they found that for most couples - 92.5 percent - the man was taller.

**What is the IQ score which separates the lowest 25?** The first quartile ( $Q_1$ ) for the IQ scores, which is the value below which 25% of the scores fall, is approximately 87.8 when rounded to one decimal place. Here's how we arrived at this: We calculated the z-score for 0.25 using the cumulative distribution function (CDF) for the standard normal distribution.

**What percentage of men are 6ft 2 or over?** Only 14.5 percent of men in the U.S. are over 6 feet tall — 3.9 percent are 6'2 or taller. The research that I found says that 10 percent of men are 6 feet or taller in the world. If you are 6'2, you are taller than 94% of men in the world.

**Should I take AP Stats if I'm bad at math?** It's important to consider your own strengths, interests, and academic goals when deciding on which courses to take. If you're not particularly strong in math but still want to challenge yourself, AP Stats might be a good option for you.

**What is the easiest AP class to take?**

**Do colleges prefer calculus or statistics?** Elite colleges often filter applications by a single high school course: calculus. Standardized tests like the SAT and ACT have lost importance, making calculus even more important for some admission officers. Acing calculus gives your college app a competitive edge, but colleges' reliance on calc is problematic.

**Is a 75% on the AP exam a 5?** Usually, a 70 to 75 percent out of 100 translates to a 5. However, there are some exams that are exceptions to this rule of thumb. The AP Grades that are reported to students, high schools, colleges, and universities in July are on AP's five-point scale: 5: Extremely well qualified.

**Is the AP Stats exam curved?** AP test scores are indeed "curved," but it's more accurate to call it a "scaling process." Instead of a traditional curve that compares your performance to other students' performance, the AP exam scaling process converts your raw score (the number of points you earned through multiple-choice questions and free- ...

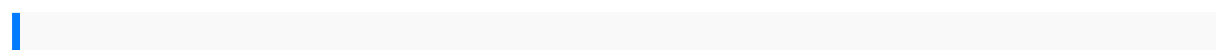
**Is 5 a bad AP score?** AP Exams are scored on a scale of 1 to 5. Many U.S. colleges grant credit and/or advanced placement (that means they let you skip the equivalent course once you get to college) for scores of 3 and above.

**What are the hardest concepts in AP Stats?** The course covers topics such as probability, hypothesis testing, and regression analysis, which can be challenging for some students. The course assumes a certain level of background knowledge in algebra and basic statistical concepts.

**What is the hardest part of statistics?** It often takes a while to see how all the concepts and definitions are connected. I know I didn't truly understand it after my first statistics course. So in short, I think the hardest thing for most people is connecting the statistics they know with whatever they are trying to apply it to.

**What is the difficulty level of AP Statistics?** Overall, AP Statistics is easier than other AP math courses. While it still requires a solid understanding of mathematical concepts, AP Statistics is less focused on solving equations, and more on analyzing data and drawing conclusions. If math isn't your strongest subject, this may be a good option for you.

**Is AP Statistics very hard?** Overall, most of the students who took the class found the AP Statistics difficulty to be fairly average for an AP class. It's definitely not a class you can coast through, but if you put in the time to learn the concepts, most people didn't find the class or the exam overwhelming or overly difficult to do well in.



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