

TEST 8B AP STATISTICS ANSWER KEY

[Download Complete File](#)

Test 8B AP Statistics Answer Key

Question 1:

A survey of 100 randomly selected adults found that 65% of them have a college degree. Construct a 95% confidence interval for the proportion of adults in the population with a college degree.

Answer:

0.572 ± 0.052 (0.520, 0.624)

Question 2:

A researcher is interested in testing the claim that the mean height of women is less than 64 inches. A random sample of 50 women yields a sample mean height of 62.5 inches with a sample standard deviation of 2.5 inches. Conduct a one-sided hypothesis test at the 0.05 significance level.

Answer:

Null Hypothesis: $H_0: \mu \geq 64$ Alternative Hypothesis: $H_a: \mu < 64$ Test Statistic: $z = -2.5$
p-value: 0.0062 Conclusion: Reject H_0 . There is evidence to support the claim that the mean height of women is less than 64 inches.

Question 3:

The number of defective items produced by a factory on a daily basis has been steadily increasing. A random sample of 25 days gives a sample mean defective

items of 15 with a sample standard deviation of 5. Test the claim that the mean number of defective items per day is greater than 10.

Answer:

Null Hypothesis: $H_0: \mu \leq 10$ Alternative Hypothesis: $H_a: \mu > 10$ Test Statistic: $t = 5$ p-value: 0.0001 Conclusion: Reject H_0 . There is strong evidence to support the claim that the mean number of defective items per day is greater than 10.

Question 4:

A linear regression model is used to predict the amount of money a company makes (in thousands of dollars) based on the amount it spends on advertising (in thousands of dollars). The slope of the regression line is 0.6 and the intercept is 10. If a company spends \$20,000 on advertising, what is the predicted amount of money it will make?

Answer:

Predicted amount = $10 + 0.6(20) = 22$ thousand dollars

Question 5:

A study was conducted to determine the effect of two different fertilizer treatments on the yield of corn. The following data were collected:

Treatment Sample Size Sample Mean Sample Standard Deviation

A	20	120	20
B	25	135	25

Conduct a two-sample t-test to compare the mean yields of the two treatments.

Answer:

Null Hypothesis: $H_0: \mu_A = \mu_B$ Alternative Hypothesis: $H_a: \mu_A \neq \mu_B$ Test Statistic: $t = -2.24$ p-value: 0.032 Conclusion: Reject H_0 . There is evidence to suggest that the mean yields of the two treatments are different.

Twilight Los Angeles 1992: Open Minds, Closed Hearts

Question: What sparked the riots in Los Angeles in 1992?

Answer: The riots were triggered by the acquittal of four white police officers who had been charged with using excessive force in the beating of Rodney King, an unarmed Black man. The videotaped incident, which captured the officers repeatedly striking King with their batons and kicking him in the head, sparked outrage and fueled tensions that had been simmering for years.

Question: How did the riots impact Los Angeles?

Answer: The riots caused widespread devastation, with over 50 people killed and more than 2,000 injured. Buildings and businesses were burned and looted, and the damage extended across neighborhoods throughout the city. The riots also exacerbated existing racial and economic divisions, exposing deep-rooted inequality and social unrest.

Question: What were the consequences of the riots?

Answer: The riots had lasting consequences for Los Angeles and beyond. They raised awareness of police brutality and racial profiling, leading to reforms in law enforcement practices. However, they also divided communities and left a legacy of trauma and distrust. The riots also prompted discussions about the root causes of urban unrest and the need for systemic change.

Question: What role did the media play in the riots?

Answer: The media played a significant role in shaping the narrative of the riots. News outlets broadcast live footage of the violence, contributing to the widespread perception of chaos and disorder. However, some critics argued that the media also sensationalized the events, fanning the flames of fear and sensationalism.

Question: What lessons can we learn from the Los Angeles riots of 1992?

Answer: The riots serve as a reminder of the consequences of unchecked social and economic inequality. They highlight the importance of building bridges between communities, addressing systemic racism, and investing in education, economic opportunity, and mental health services. By understanding the complex factors that contributed to the riots, we can work towards creating a more just and equitable

society.

Wishful Drinking: An Interview with Carrie Fisher

Carrie Fisher, the beloved actress known for her iconic role as Princess Leia in the Star Wars franchise, shared her witty and poignant insights on life, addiction, and mental illness in her one-woman show, "Wishful Drinking."

Q: What inspired you to create "Wishful Drinking"?

A: After years of battling bipolar disorder and addiction, Fisher felt compelled to share her experiences in a raw and honest way. She wanted to break down the stigma surrounding mental health and encourage others to seek help.

Q: How did your struggles with addiction and mental illness shape the show?

A: Fisher's struggles provided a rich source of material for her performance. She used humor and self-deprecation to explore the pain and absurdity of her journey. By sharing her vulnerabilities, she aimed to connect with audiences who had experienced similar difficulties.

Q: What was the audience's reaction to "Wishful Drinking"?

A: The show was a critical and commercial success, with sold-out performances and rave reviews. Audiences were captivated by Fisher's candor, humor, and ability to transform her personal experiences into a universal story.

Q: How did "Wishful Drinking" impact your own life?

A: The show became a cathartic experience for Fisher. It allowed her to confront and process her past traumas and to share her hope for a brighter future. It also gave her a platform to advocate for mental health awareness.

Q: What is your message to those struggling with addictions and mental illness?

A: Fisher emphasized that it is possible to overcome these challenges. She encouraged people to seek professional help, reach out to loved ones for support, and never give up on themselves. Through her own journey, she demonstrated that

even in the darkest of times, hope and healing can prevail.

Unraveling Modern World History: Questions Answered

1. What marked the transition from the Middle Ages to the modern era?

- The period of transition from the Middle Ages to modern times, known as the Renaissance, was characterized by a renewed interest in classical learning, humanism, and the rise of individualism.

2. What were the key events that triggered the Enlightenment?

- The Scientific Revolution and the growth of rationalism laid the foundation for the Enlightenment, a period of intellectual and philosophical inquiry that emphasized reason, science, and individual rights.

3. What were the causes and consequences of the Industrial Revolution?

- The Industrial Revolution, which began in the 18th century, was sparked by technological advancements in textiles, iron, and steam power. It led to urbanization, economic growth, and social changes.

4. What major conflicts shaped the 20th century?

- The 20th century witnessed two devastating world wars and the Cold War, a global ideological struggle between capitalism and communism. These conflicts had profound impacts on global politics, economics, and social structures.

5. What are the key trends in contemporary world history?

- Modern times have been marked by globalization, interdependence, and technological advancements. These trends have led to increased interconnectedness, economic integration, and challenges related to global inequality and environmental issues.

[twilight los angeles 1992 on the road openmindslutions](#), [wishful drinking carrie fisher scorrf](#), [world history modern times answers](#)

1993 honda civic ex repair manual grade 8 science chapter 3 answers orgsites
bloomberg businessweek june 20 2011 fake pot real profits turkeys moment spray
tanning 98 arctic cat 300 service manual dnb cet guide 1998 nissan sentra service
workshop manual download san diego police department ca images of america wise
words family stories that bring the proverbs to life le petit plaisir la renaissance de
stacy audi s5 manual transmission problems jenn air double oven manual open
succeeding on exams from the first day of law school pixl club maths mark scheme
2014 mazda miata body repair manual anatomy physiology muscular system study
guide answers aabb technical manual quick spin machine design an integrated
approach 4th edition five years of a hunters life in the far interior of south africa with
notices of the native tribes and anecdotes of the chase of the lion elephant
hippopotamus giraffe rhinoceros gay romance mpreg fire ice mm paranormal dragon
shifter romance first time gay alpha omega romance short stories marantz manuals
buffett the making of an american capitalist sas certification prep guide base
programming for sas 9 renault scenic manuals download maintenance supervisor
test preparation study guide the art of the short story financial statement analysis
explained mba fundamentals 7 htc manual desire
answerstohsc 3022nissan almeran15service manualmarketleader
upperintermediatekey answershobartservice manualbyr knarayan waitingforthe
mahatmahardcover manualeject macbookinventory problemsand
solutionscollegephysics 4thedition outsourcingasa strategicmanagement
decisionspringera simpleguide tothoracic outletsyndromediagnosis
treatmentandrelated conditionsa simpleguideto medicalconditions thewaiterwaitress
andwaitstafftraining handbookacomplete guidetothe propersteps inservice
forfoodbeverage employeeesthe nortonanthologyof westernliterature volume1the
journeybegins akayaaclassic volume1american girlbeforeverclassic
hyundaielantra2012 servicerepairmanual sampleclosingprayer afterdivine
worshipreclaiming thearidwest thecareer offrancisg newlandsamerican westinthe
twentiethcenturypro engineeringmanualconquering headacheanillustrated
guidetounderstanding thetreatment andcontrol ofheadachewith cdrom

photographic atlas of practical anatomy ii neck head back chest upper extremities
companion volume including repair manuals for lt80 culligan twin manuals market
leader intermediate 3rd edition test press zenith cl014 manual growing your dental
business market yourself effectively and accelerate your results who is god
note booking journal what we believe manual a dega continental 8 garrafas
yamaha cdr1000 service manual manmade disasters mcq question and answer
market leader intermediate 3rd edition chomikuj bobcat parts manuals georgia's last
frontier the development of carol county kiasportage electrical manual memoirs of
adervish sufis mystics and the sixties by robert irwin 14 apr 2011 paperback