

STATISTICAL REASONING IN SPORTS TEST ANSWERS

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Statistical Reasoning in Sports: Test Answers

Question 1:

In a basketball game, a player shoots 10 free throws and makes 8. What is the confidence interval for the player's true shooting percentage at the 95% level?

Answer:

95% confidence interval: (0.649, 0.871)

Question 2:

A study found that the average height of male basketball players is 6 feet 7 inches with a standard deviation of 3 inches. What is the probability that a randomly selected male basketball player is taller than 6 feet 9 inches?

Answer:

0.0548

Question 3:

A football team scores an average of 28 points per game with a variance of 16. The team will play 10 games in the upcoming season. What is the probability that the team will score more than 300 points in the season?

Answer:

0.0228

Question 4:

In a soccer match, a team takes 15 shots on goal and scores 4 goals. What is the binomial probability of the team scoring exactly 4 goals?

Answer:

0.2717

Question 5:

A baseball team has a batting average of 0.25. What is the probability that a batter will get a hit in his next at-bat?

Answer:

0.25

Why does the protection of rhinoceroses require an international agreement?

Because the trade in wild animals and plants crosses borders between countries, the effort to regulate it requires international cooperation to safeguard certain species from over-exploitation. CITES was conceived in the spirit of such cooperation.

What laws protect rhinos? The Rhinoceros and Tiger Conservation Act of 1994 builds upon the Endangered Species Act and works to protect and conserve all subspecies of tigers and rhinos. These species are threatened by the illegal trade of rhinoceros horns and tiger body parts.

What is the rhinoceros and Tiger Conservation Act? The Rhinoceros and Tiger Conservation Act authorizes grants to foreign governments, the CITES Secretariat, and non-governmental organizations for programs directly or indirectly assisting in the conservation of rhinoceros and tigers.

When did rhino hunting become illegal? Trade. The international trade in rhino horn has been banned under CITES (Convention on International Trade in Endangered Species of Fauna and Flora) since 1977. In South Africa it is possible to trade rhino horn domestically (within the country), after a legal battle to overturn the

ban took place in 2017.

Why do rhinos need to be protected? Why rhinos matter. Rhinos have been around for millions of years and play a crucial role in their ecosystem. They're important grazers, consuming large amounts of vegetation, which helps shape the African landscape. This benefits other animals and keeps a healthy balance within the ecosystem.

What is one international treaty that is intended to prevent the extinction of species? CITES is an international agreement, signed by 184 parties in 1973, designed to ensure that international trade in animals and plants does not threaten their survival in the wild.

What level of endangerment is a rhino? Three species of rhino—black, Javan, and Sumatran—are critically endangered.

Is it the right thing to do to save rhinos? They play a critical role in maintaining the structure of an ecological community, and without them, many experts believe that the ecosystem would be dramatically different or cease to exist. Rhinos are vital for Africa's savannahs.

What is the most protected rhino? Share this page: There are now just two northern white rhinoceros remaining in the world. Najin and Fatu (both female) live under constant protection from poachers in Kenya's Ol Pejeta Conservancy.

Are rhinos covered under the Endangered Species Act? (5) The tiger and all rhinoceros species, except the southern subspecies of white rhinoceros, are listed as endangered species under the Endangered Species Act of 1973 (16 U.S.C.

What country recently lifted a 25 year standing ban on the importation of tiger and rhinoceros parts? “China's decision to reopen a legalized trade in farmed tiger bone and rhino horn reverses 25 years of conservation progress in reducing the demand for these products in traditional Chinese medicine and improving the effectiveness of law enforcement,” said Leigh Henry, director of wildlife policy, WWF-US.

What is the rhino conservation Plan? The National Rhino Conservation Strategy is an initiative by the Ministry of Environment Forest and Climate Change (MoEFCC)

implemented in 2019. The strategy aims to establish DNA profiles of Indian rhinos and conserve the endangered species of the greater one-horned rhinoceros.

Why rhino is so highly prized by illegal hunters? Black rhinos remain critically endangered because of demand for rhino horns on the illegal international market, mainly in Asia, where rhino horn is used for traditional medicine, and increasingly as a status symbol to display success and wealth.

Do rhino horns grow back if cut off? It regrows depending on the age of the animal; [for] younger animals, it grows a lot faster than older animals. But, in general, if we want to keep the rhinos dehorned and to be able to take enough horn off to cut it off with a chainsaw, we'll dehorn them every 18 months to 2 years.

Why are rhino horns so valuable? Rhino poaching has risen to levels not seen in almost two decades. Although there is no scientific proof of its medical value, rhino horn remains highly prized in traditional Asian medicine, where it is ground into a fine powder as treatment for a variety of illnesses such as nosebleeds and fevers.

How many rhinos are left in the world in 2024? Today, these much-loved herbivores, with their armoured hides, disgruntled expressions and prehistoric-looking horns, have become an emblem for our wildlife crisis: decimated by poaching and habitat loss, their numbers have dwindled by a staggering 95% to around just 27,000 worldwide.

What eats a rhinoceros? In the wild, the adult black or white rhino has no predators except for humans.

What is the main reason rhinos are killed? First and foremost, poaching. Rhinos are killed purely for their horns. Poached rhinos are usually found completely untouched except for a gruesome wound on their noses where their horns have been forcibly removed.

Who enforces international law? Both the Security Council and I.C.J. determine for themselves what sources of international law apply in individual cases. Finally, the International Criminal Court enforces certain aspects of international law, primarily human rights law, customarily and as established by the U.N.

What is the major treaty regulating international trade in wildlife? The Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) is a global treaty to ensure international trade in wild plants and animals is legal, traceable, and biologically sustainable.

Is the Endangered Species Act a US or World treaty? The US Endangered Species Act (ESA) is our nation's most effective law to protect at-risk species from extinction, with a stellar success rate: 99% of species listed on it have avoided extinction.

Why is international agreements important for conservation? International agreements are instrumental in biodiversity conservation as they provide a platform for countries to collaborate and agree on common goals and strategies.

What is the International Convention for the Protection of animals? Summary: A proposed umbrella treaty to deal with all aspects of animal issues. Topics covered in the protocols include, transportation of animal, methods of taking wildlife, care of exhibited wildlife and protection from cruel treatment.

What is an international agreement that can be used to protect invasive species? The International Plant Protection Convention (IPPC) is an international plant health agreement, established in 1952, that aims to protect cultivated and wild plants by preventing the introduction and spread of pests.

What is the international treaty that protects species around the world? CITES, which stands for the Convention on International Trade in Endangered Species of Wild Fauna and Flora, is a global agreement among governments to regulate or ban international trade in species under threat.

The Gratification Engine: An Intimate History of the Greater Kingdom

By Anda Barrow and Allis Obby

What is the Gratification Engine and what is its purpose?

The Gratification Engine is a mysterious device that has been hidden away for centuries, concealed from the prying eyes of the world. Legend has it that this artifact

holds the power to fulfill any desire, be it wealth, fame, or power. Its creators sought to understand the nature of human desires and to harness their power, creating a device that could grant any wish.

Who are the key figures in this story?

Anda Barrow is a young woman from a secluded village who stumbles upon the hidden device. Allis Obby is a renowned explorer who is drawn into the mystery surrounding the Gratification Engine. Together, they embark on a perilous journey to uncover its secrets.

What are some of the challenges faced by the characters?

Anda and Allis face numerous obstacles in their quest. They must navigate treacherous landscapes, unravel ancient riddles, and confront powerful enemies who seek to control the device for their own sinister purposes. Along the way, they question the morality of using such a powerful force and the consequences it could bring upon the world.

What is the significance of the Greater Kingdom?

The Greater Kingdom is the setting for this epic tale, a realm of wonder and peril. It is a place where the lines between good and evil blur and where the bonds of loyalty are put to the test. The characters' journey through the Greater Kingdom provides a backdrop for exploring themes of power, desire, and the human condition.

What is the ultimate fate of the Gratification Engine?

The climax of the story pits the characters against an overwhelming force that threatens to destroy everything. The fate of the Gratification Engine and the Greater Kingdom itself hangs in the balance. The choice that Anda and Allis make will determine the destiny of both human and device, leaving a lasting impact on the world.

Tuxedo Park: A Wall Street Tycoon and the Secret Palace of Science that Changed the Course of World

Paragraph 1:

In the secluded heart of Tuxedo Park, New York, amidst the rolling hills and sprawling mansions, lies a hidden gem: Tuxedo Park Laboratory. Founded in 1893 by the enigmatic Wall Street tycoon, Pierre S. du Pont, this enigmatic institution became a clandestine hub for scientific innovation that would forever alter the course of history.

Paragraph 2:

Driven by an insatiable curiosity and a firm belief in the power of science, du Pont assembled a brilliant team of researchers at Tuxedo Park. Among them were Charles Proteus Steinmetz, a pioneering electrical engineer, and Willis Rodney Whitney, a renowned chemist. Together, they embarked on groundbreaking experiments that would revolutionize industries.

Paragraph 3:

What secrets did Tuxedo Park Laboratory hold? Behind its unassuming facade, scientists delved into the mysteries of electricity, metallurgy, and chemistry. They developed new materials, invented life-saving technologies, and laid the foundation for modern telecommunications. The laboratory became a breeding ground for groundbreaking inventions, including the tungsten filament light bulb and the electric chair.

Paragraph 4:

During World War II, Tuxedo Park Laboratory played a pivotal role in the development of radar and other military technologies. Its scientists worked tirelessly to create cutting-edge solutions that would ensure Allied victory. The laboratory also served as a meeting point for some of the most brilliant minds of the era, including Albert Einstein, Niels Bohr, and Enrico Fermi.

Paragraph 5:

The legacy of Tuxedo Park Laboratory continues to inspire. Its contributions to modern science and technology are immeasurable, shaping the world we live in today. It stands as a testament to the transformative power of curiosity, collaboration, and the unwavering pursuit of knowledge. Questions and Answers:

- **Q:** Who founded Tuxedo Park Laboratory?
 - **A:** Pierre S. du Pont
- **Q:** What fields of research were pursued at the laboratory?
 - **A:** Electricity, metallurgy, and chemistry
- **Q:** Which scientist developed the tungsten filament light bulb at Tuxedo Park?
 - **A:** Willis Rodney Whitney
- **Q:** How did the laboratory contribute to World War II?
 - **A:** Developed radar and other military technologies
- **Q:** What is the lasting impact of Tuxedo Park Laboratory?
 - **A:** Laid the foundation for modern science and technology

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