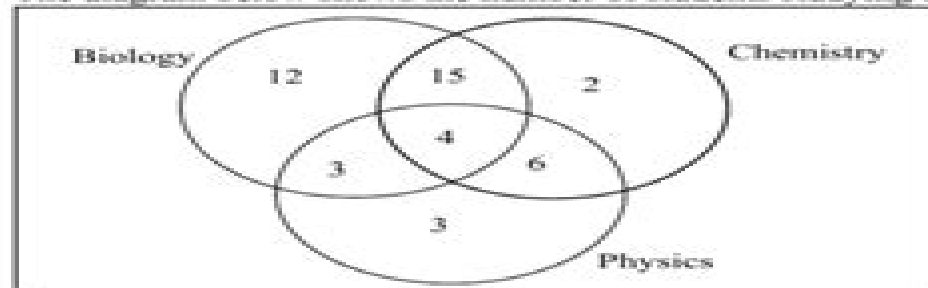


Topic assessment

- In this question you must show detailed reasoning.
Which is more likely, never getting a 6 when rolling a fair die six times, or never getting a double 6 when rolling a pair of fair dice 36 times? [4]
- In the sixth form at Eastport School, there are 45 students studying at least one of the three sciences, Biology, Chemistry and Physics.

The diagram below shows the number of students studying each science.



- Find the probability that one of these students, selected at random, is studying
 - Physics
 - Chemistry
 - both Physics and Chemistry. [3]
 - Two students are selected at random. Find the probability that both are studying just one science and that they are not both studying the same science. [4]
3. The probability distribution of a discrete random variable X is given by:

$$P(X = r) = k(6r^2 - r^3) \quad \text{for } r = 1, 2, 3, 4, 5$$

$$P(X = r) = 0 \quad \text{otherwise}$$

- Show that $k = \frac{1}{105}$. [3]

Two values of X are chosen at random.

- Find the probability that the product of the two values is even. [3]

Mei Statistics 1 Probability Topic Assessment

**Pierre Jolivet, Jorge Santiago-
Blay, Michael Schmitt**



Mei Statistics 1 Probability Topic Assessment:

Topics in Statistical Dependence Henry W. Block, Allan R. Sampson, Thomas H. Savits, 1990 **Digital Discussions**
Natalie Jomini Stroud, Shannon McGregor, 2018-11-09 Big data raise major research possibilities for political communication scholars who are interested in how citizens elites and journalists interact With the availability of social media data academics can observe on a large scale how people talk about politics The opportunity to study political discussions is also available to media organizations and political elites examining how they make use of big data represents another fruitful scholarly trajectory The scholars involved in Digital Discussions represent forward thinkers who aim to inform the study of political communication by analyzing the behavior of and messages left by citizens elites and journalists in digital spaces By using a variety of methodological approaches and bringing together diverse theoretical perspectives this group sheds light on how big data can inform political communication research It is critical reading for those studying and working in communication studies with a focus on big data Which Degree, 1995, 1994 **Research in Progress**, 1991 **Research in Progress**
United States. Army Research Office, 1991 Vols for 1977 consist of two parts Chemistry biological sciences engineering sciences metallurgy and materials science issued in the spring and Physics electronics mathematics geosciences issued in the fall *Encyclopedia of Bioinformatics and Computational Biology*, 2018-08-21 Encyclopedia of Bioinformatics and Computational Biology ABC of Bioinformatics Three Volume Set combines elements of computer science information technology mathematics statistics and biotechnology providing the methodology and in silico solutions to mine biological data and processes The book covers Theory Topics and Applications with a special focus on Integrative omics and Systems Biology The theoretical methodological underpinnings of BCB including phylogeny are covered as are more current areas of focus such as translational bioinformatics cheminformatics and environmental informatics Finally Applications provide guidance for commonly asked questions This major reference work spans basic and cutting edge methodologies authored by leaders in the field providing an invaluable resource for students scientists professionals in research institutes and a broad swath of researchers in biotechnology and the biomedical and pharmaceutical industries Brings together information from computer science information technology mathematics statistics and biotechnology Written and reviewed by leading experts in the field providing a unique and authoritative resource Focuses on the main theoretical and methodological concepts before expanding on specific topics and applications Includes interactive images multimedia tools and crosslinking to further resources and databases **Storage and Disposition of Weapons-usable Fissile Materials**, 1996 **On Some Inference Problems Concerning Life Test Experiments Under Type 1 Or Hybrid Censoring** Shu-Mei Chen, 1984
New Developments in the Biology of Chrysomelidae Pierre Jolivet, Jorge Santiago-Blay, Michael Schmitt, 2021-10-25 This book summarizes what is actually known about the biology of Leaf Beetles It is the most recent study in the field As we are well aware Chrysomelidae one of the three largest families of beetles are of great economic importance since they can be a

serious pest to crops or on the other hand can be used to destroy imported weeds This is due to the selectivity of their feeding preferences In this way Chrysomelidae are an invaluable tool for studying plant selection mechanisms The many and varied topics dealt with in this book cover almost all aspects of phylogeny classification paleontology parasitology biogeography defenses population biology genetics and biological control as well as many other subjects The most renowned specialists in these fields have been chosen to put together a diverse state of the art publication Few beetle families have been studied in such detail as the Chrysomelids This is not only due to their economic importance but also to their incredible variety of forms and behaviors There are no less than 40 000 species currently in existence worldwide but probably 100 000 species have existed since the Jurassic when they first came into being with the Cycadoids and other primitive plant families later to diversify during the Cretaceous with the advent of flowering plants

Selected Topics on Aging Management, Reliability, Safety, and License Renewal Vikram N. Shah, F. L. Cho, 2002 Annotation The role of aging and risk management in safe operation and life extension of nuclear power plants and petrochemical plants is explored in these papers from an August 2002 conference Structural mechanical heat transfer thermal hydraulic fatigue fracture and creep problems are addressed Papers topics include generic aging management programs for license renewal of PWR reactor coolant system components high cycle analytical thermal fatigue test of pipe structures managing aging of coatings for nuclear plant license renewal and signal processing for lifetime management Subjects examined in the category of reliability and safety include a logic model approach to conceptual design of scientific industrial complexes and risk based maintenance There is no subject index Annotation c Book News Inc Portland OR booknews com

Technical Abstract Bulletin, 1981 Mathematical Reviews, 2005

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University of California, Los Angeles Long Range Development Plan, 2002 *Scientific and Technical Aerospace Reports*, 1980-08 *Current Index to Statistics, Applications, Methods and Theory*, 1999 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields Bulletin - Institute of Mathematical Statistics Institute of Mathematical Statistics, 1995

Exceptional Child Education Resources, 1980 *2002 Long Range Development Plan: Draft environmental impact report*, 2003

Contributed Papers International Statistical Institute. Session, 2001

The Top Books of the Year Mei Statistics 1 Probability Topic Assessment The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Mei Statistics 1 Probability Topic Assessment : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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