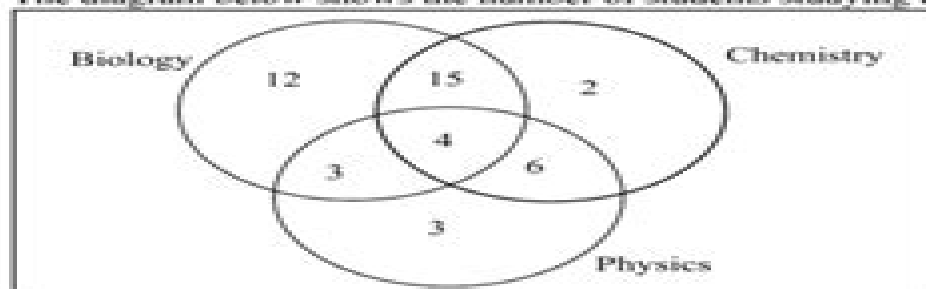


Topic assessment

1. 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]
2. 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.



- (a) Find the probability that one of these students, selected at random, is studying
    - (i) Physics
    - (ii) Chemistry
    - (iii) both Physics and Chemistry. [3]
  - (b) 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:

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

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

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

Two values of  $X$  are chosen at random.

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

# Mei Statistics Probability Topic Assessment

**A Loxley**



## **Mei Statistics Probability Topic Assessment:**

**Assessing Fault Model and Test Quality** Kenneth M. Butler, M. Ray Mercer, 2012-12-06 For many years the dominant fault model in automatic test pattern generation ATPG for digital integrated circuits has been the stuck at fault model The static nature of stuck at fault testing when compared to the extremely dynamic nature of integrated circuit IC technology has caused many to question whether or not stuck at fault based testing is still viable Attempts at answering this question have not been wholly satisfying due to a lack of true quantification statistical significance and or high computational expense In this monograph we introduce a methodology to address the question in a manner which circumvents the drawbacks of previous approaches The method is based on symbolic Boolean functional analyses using Ordered Binary Decision Diagrams OBDDs OBDDs have been conjectured to be an attractive representation form for Boolean functions although cases exist for which their complexity is guaranteed to grow exponentially with input cardinality Classes of Boolean functions which exploit the efficiencies inherent in OBDDs to a very great extent are examined in Chapter 7 Exact equations giving their OBDD sizes are derived whereas until very recently only size bounds have been available These size equations suggest that straightforward applications of OBDDs to design and test related problems may not prove as fruitful as was once thought

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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     Nonignorable Nonresponse Models for Longitudinal Categorical Data Mei-feng Huang,1995     Which Degree, 1995 ,1994     **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     **Storage and Disposition of Weapons-usable Fissile Materials** ,1996     **Mathematical Reviews** ,2005     **Scientific and Technical Aerospace Reports** ,1980-08     *On Some Inference Problems Concerning Life Test Experiments Under Type 1 Or Hybrid Censoring* Shu-Mei Chen,1984     **Materials Science and Engineering** Garry Zhu,2011-01-20 Selected peer reviewed paper from 2010 International Conference on Materials Science and Engineering Science ICMSES 2010 in December 11 12 Shenzhen China     *Proceedings of the Section on Statistical Education* American Statistical Association. Section on Statistical Education,1998     The Mathematical Gazette ,2006     **System Modeling and Analysis** Hisashi Kobayashi,Brian Lai-bue Mark,2009 Kobayashi and Mark present the most up to date analytical models simulation techniques and computational algorithms useful for performance evaluation of complex systems including computer systems communication networks transportation systems and manufacturing systems Broader in scope than other texts this book provides more in depth coverage of topics such as computational algorithms and approximations It appeals to students with a background or interest in a wide range of areas including systems analysis or telecommunication networks Publisher s

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