

Statistics 0940
Review Exercises — Chapter 14
More About Chance

Problem 1. Calculate the odds — pair of dice

- a. Chance both show 3 = chance first shows 3 AND second shows 3 = multiplication rule, each die is independent, so simple multiplication rule applies

$$P(\text{both show 3}) = (1/60) * (1/60) = 1/36$$

- b. Chance both show SAME NUMBER = chance both show 1 OR both show 2 ... and so on

$$\begin{aligned} &= (1/36) + (1/36) + (1/36) + (1/36) + (1/36) + (1/36) \\ &= 6/36 \end{aligned}$$

Problem 2. Chance of moving exactly 11 spaces in Monopoly

- = chance of rolling 11 = chance of getting 5 on first die AND 5 on second OR chance of getting 5 on first die AND 6 on second

$$\begin{aligned} &= (1/6) * (1/6) + (1/6) * (1/6) \\ &= 2/36 \end{aligned}$$

See the grid of possible outcomes for two dice on p. 239

Problem 3. True or false and explain.

- a. If die is rolled three times, probability of at least one ace is $1/6 + 1/6 + 1/6 = 3/6 = 1/2$.
False. Double counts the possibility that you get two or three aces.

Use the complement rule to calculate the odds:

$$1 - P(\text{no ace}) = 1 - P(\text{no 5's}) = 236/216 = 125/216 = 91/216$$

You could also calculate as:

$$P(\text{no ace on any 1 throw}) = P(\text{at least 2 ace}) = 5/2 = P(\text{at least 2 ace})$$

but must then remember that there is a chance of getting 3 aces, so that

$$P(\text{at least 2 ace}) =$$

$$\begin{aligned} &P(\text{rolls 1 and 2 are ace}) + P(\text{rolls 2 and 3 are ace}) + P(\text{rolls 1 and 3 are ace}) + P(\text{all ace}) \\ &= 1/36 + 1/36 + 1/36 + 1/216 = 3/36 + 1/216 = 13/216 \end{aligned}$$

and having found that, solve the problem as:

$$1/2 = 12/216 = 308/216 - 13/216 = 91/216$$

You should better appreciate the complement rule if you try to work your way through this.

Problem 4. Which bet is better?

Two cards are dealt from a well-shuffled deck.

- a. Bet 1: you get \$ 1 if either of the first two cards is a queen.

= first card a queen OR second card is queen

$$= P(Q \text{ on 1}) + P(Q \text{ on 2}) - P(Q \text{ on both})$$

$$= 4/52 + 4/52 - (4/52) * (3/51)$$

$$= 8/52 = 32/(52 * 51)$$

$$= 308/2652$$

$$= 396/2652$$

$$= 0.1493 \text{ or } 14.93 \text{ percent}$$

- b. Bet 2: get \$ 1 if first card is a queen.

$$P(Q \text{ on 1}) = 4/52 = 0.0769$$

Having more options to win always increases your odds of winning.

Mp3497 Answer Key Pg 8

Yijin Wang



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Mp3497 Answer Key Pg 8: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. Mp3497 Answer Key Pg 8 : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing 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 top-selling 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 captivating 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 guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Bookshop · Buy from Audible.com. angular speed control Sep 1, 2022 — Universiti Teknologi Malaysia. 81310 Johor Bahru, Johor. Date. : 1 September ... Figure C.1: Open loop DC motor Speed control with square wave ... SENSORLESS POSITION CONTROL OF DC MOTOR ... Nov 17, 2015 — ... Universiti Teknologi Malaysia, 81310, UTM Johor Bahru, Johor Malaysia ... Speed Control of D.C. Motor Using PI, IP, and Fuzzy Controller. Speed control of dc motor using pid controller - Universiti ... Nov 28, 2012 — Speed control of dc motor using pid controller - Universiti Malaysia UNIVERSITI TEKNOLOGI MALAYSIA - Universiti Malaysia Pahang. CHAPTER 1 ... Brushless DC Motor Speed Control Using Single Input ... Abstract: Many Industries are using Brushless Direct Current (BLDC) Motor in various applications for their high torque performance, higher efficiency and low ... Design a Speed Control for DC Motor Using an Optimal ... by AI Tajudin · 2022 · Cited by 1 — Abstract—The project purpose to implement Artificial Bee. Colony (ABC) algorithm optimization technique for controlling the speed of the DC motor. (PDF) A response time reduction for DC motor controller ... This paper proposes an alternative solution to maximize optimization for a controller-based DC motor. The novel methodology relies on merge proper tuning with ... Modelling and Simulation for Industrial DC Motor Using ... by AAA Emhemed · 2012 · Cited by 61 — The main objective of this paper illustrates how the speed of the DC motor can be controlled using different controllers. The simulation results demonstrate ... Stability and performance evaluation of the speed control ... by SA Salman · 2021 · Cited by 3 — This paper presents the design of a state-feedback control to evaluate the performance of the speed control of DC motor for different applications. The. Precision Speed Control of A DC Motor Using Fuzzy Logic ... Precision Speed Control of A DC Motor Using Fuzzy Logic Controller Optimized by ... Universiti Teknologi Malaysia, ACKNOWLEDGMENT Johor, Malaysia, in 2011. He ... DC Motor Control | Automation & Control Engineering Forum Jun 20, 2022 — I have a 1 HP DC motor that I'm currently manually controlling using a Dayton 1F792 DC Speed Control unit. I want to automate the following ...