

# Worksheet #4: Conditional Probability Answer Key

Name \_\_\_\_\_

- If a single fair die is rolled, find  $P(3 \mid \text{prime})$ . **Prime numbers: 1, 2, 3, 5 — so —  $1/4$**
- If two cards are drawn without replacement from a deck, find the probability that the second card is a diamond, given that the first card was a diamond.  **$(13 - 1)/(52 - 1) = 0.235$**
- If two fair dice are rolled, find the probability that the sum of the faces is 7, given that the first die rolled is odd. **Sum of 7 AND first die odd: {1, 6}, {3, 4}, {5, 2} = 3/36; First die odd = 1/2 — so —  $(3/36)/(1/2) = 6/36 = 1/6$**
- If three cards are drawn without replacement from a deck, find the probability that the third card is a face card, given that the first card was a king and the second card was a 9.  **$(12 - 1)/(52 - 2) = 0.22$**
- A six-sided die is tossed. What is the probability that it shows 2 if you know the following:
  - It shows an even number. **Evens: 2, 4, 6 — so —  $1/3$**
  - It shows a number less than 5. **Less than 5: 1, 2, 3, 4 — so —  $1/4$**
  - It does not show a 6.  **$1/5$**
  - It shows 1 or 2.  **$1/2$**
  - It shows an even number less than 4. **1**
  - It shows a number greater than 3. **0**
- One container holds the letters D A D and a second container holds the letters A D D. One letter is chosen randomly from the first container and added to the second container, then a letter will be chosen from the second container.
  - What is the probability that the second letter chosen is D if the first letter was A? ... if the first letter was D?  **$1/2$ ;  $3/4$**
  - What is the probability that the second chosen letter is A if the first letter was A? ... if the first letter was D?  **$1/2$ ;  $1/4$**
- Let A and B be events with  $P(A) = 1/3$ ,  $P(B) = 1/2$ , and  $P(A \text{ and } B) = 1/6$ . Find  $P(A|B)$ ,  $P(B|A)$   
 **$P(A|B) = (1/6)/(1/2) = 1/3$ ;  $P(B|A) = (1/6)/(1/3) = 1/2$**
- A couple wants to have 3 or 4 children, including exactly 2 girls. Is it more likely that they will get their wish with 3 children or with 4?  
**There are 8 possibilities ( $2^3$ ) with three children and 16 possibilities ( $2^4$ ) with four children.  
3 kids: GGB, GBG, BGG = 3/8  
4 kids: GGBB, GBGB, GBGG, BGGB, BGBG, BBGG = 6/16 = 3/8  
Equally likely!**

# Problem Set 4 Conditional Probability Renyi

**Chao Zhang**



**Problem Set 4 Conditional Probability Renyi:**

## Decoding **Problem Set 4 Conditional Probability Renyi**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Problem Set 4 Conditional Probability Renyi**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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