

Statistics 0940
Review Exercises — Chapter 14
More About Chance

Problem 1. Calculate the odds — pair of dice

- a. Chance both show 1 = chance first shows 1 AND second shows 1 = multiplication rule, each die is independent, so simple multiplication rule applies

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

- 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

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

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 a queen

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

$$= 4/52 + 4/52 - (4/52) \cdot (3/51)$$

$$= 8/52 = 32/(52 \cdot 51)$$

$$= 308/(52 \cdot 51)$$

$$= 308/2652$$

$$= 0.1161 \text{ or } 11.61 \text{ percent}$$

- 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 Pg 10 Answer

Terry C. Jones



Mp3497 Pg 10 Answer:

Decoding **Mp3497 Pg 10 Answer**: Revealing the Captivating Potential of Verbal Expression

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