

## 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

$$P(\text{both show } 3) = 11 / 60 * C(1 / 6) = 1/36$$

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

$$= (1/36) + (1/36) + (1/36) + (1/36) + (1/36) + (1/36)$$

$$= 6 / 36$$

**Problem 2. Chance of missing exactly 11 spaces in Monopoly**

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

$$= (1/6) * (1/6) + (1/6) * (1/6)$$

$$= 2/36$$

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:

$$1 - P(\text{no ace}) = 1 - P(\text{one } 5/6 \cdot 5/6) = 236 / 216 = 125 / 216 = 91 / 216$$

You could also calculate as:

$$P(\text{no ace on any 1 throw}) = P(\text{at least 1 ace}) = 5/6 = P(\text{at least 2 ace})$$

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

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

$$P(\text{rolls 1 and 2 are ace}) + P(\text{rolls 2 and 3 are ace}) + P(\text{rolls 1 and 3 are ace}) + P(\text{all ace})$$

$$= 1 / 36 + 1 / 36 + 1 / 36 + 1 / 216 = 3 / 36 + 1 / 216 = 13 / 216 = 13 / 216$$

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

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

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

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

$$= (808 - 12) / (52 * 51)$$

$$= 396 / 2652$$

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

- 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 Pg 10 Answer Key

**Lingjun Ying**

**Mp3497 Pg 10 Answer Key:**

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