

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:

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

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 hence found that, using the problem as:

$$1/2 = 12/216 = 108/216 - 13/216 = 91/216$$

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

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

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

$$= 8/52 = 12/(52 * 51)$$

$$= 108/2652$$

$$= 396/2652$$

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

- 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.

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**M Mosston**



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