

Statistics 1040
Review Questions – Chapter 13
What are the Chances?

Problem 1. True/False.

- Nothing can have probability 1000 percent. — probability values are restricted to zero to one, or to zero percent to 100 percent. Note that $1.00 = 100$ percent, just as one dollar = 100 cents.
- If something has probability 90 percent, it can be expected to happen about nine times as often as its opposite. Depends on whether “something” and “its opposite” are the only alternatives — if they are mutually exclusive and collectively exhaustive, then yes, at least as the expected value of a sequence of random trials.

Problem 2. Betting opportunity.

Two cards are dealt from a well-shuffled standard 52-card deck. You have the choice of two bets:

- Win if the first card is a king.
- Win if the first card is a king AND the second card is a queen.

Which is your better choice and why?

Choose A — note that the AND means you must get both cards right, and reduces your odds.

Chance of A = $4 / 52 = .0769$ or 7.69 percent.

Chance of B = $(4 / 52) * (4 / 51) = 16 / 2652 = .0060$ or 0.6 percent.

Problem 3. Another betting opportunity.

Four cards will be dealt from the top of a well-shuffled deck. You have the choice of two bets:

- Win if you get a club, diamond, heart, and spade IN THAT ORDER.
- Win if you get four different suits in the four draws, IN ANY ORDER.

Note that the phrase IN THAT ORDER = “AND”, you must get a club AND a diamond AND a heart AND a spade:

$$P(C \text{ and } D \text{ and } H \text{ and } S) = (13 / 52) * (12 / 51) * (11 / 50) * (10 / 49) = 28,561 / 6,497,400 = 0.0044$$

The phrase “IN ANY ORDER” = “OR”

You must get CDHS OR CDSH OR DCHS OR ...

If you list all possibilities, you will find there are 24 of them. We will see how to calculate all the possibilities in chapter 15.

So the chance of winning bet B will be 24 times that of winning bet A. —

adding $P(CDHS) + P(CDSH) + P(DHCS) \dots = 24 * P(CDHS) = 0.1055$ or 10.55 percent.

Problem 4. Odds of 4 aces and a king, IN THAT ORDER

As in the last problem, IN THAT ORDER means AND, which means multiply:

$$P(AAAAK) = (4 / 52) * (3 / 51) * (2 / 50) * (1 / 49) * (4 / 48) = 96 / 211,305,200 = .00000045$$

If we had said “in any order” we would have 3 times the chance — the ace-ace could go into any of the five positions.

Problem 5. Independence in a box model.

Six tickets are in the box, three green tickets labeled 1, 1 and 8, and three red tickets labeled 1, 1, 8.

Are color and number independent? YES — knowing the color does not help you predict the number; and knowing the number does not help you predict the color:

$$P(\text{Red} | 8) = 1 / 3, \text{ and } P(\text{Red}) = 3 / 6$$

$$P(8 | \text{Red}) = 1 \text{ out of } 3 \text{ red tickets} = 1 / 3, \text{ and } P(8) = 2 \text{ out of } 6 \text{ tickets} = 1 / 3.$$

Problem 6. Three draws from a standard deck.

a. Probability that first card is ace of diamonds = $1 / 52$

b. There is a 1/52 chance for the second card drawn to be the ace of clubs, if we know nothing about the first card.

c. There is a $(1/52) * (1/51)$ chance of getting the ace of diamonds, then the ace of clubs. In this case, we must use conditional probability.

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