

Chapter 1

Principles of Probability

1. Combining independent probabilities.

You have applied to three medical schools: University of California at San Francisco (UCSF), Duluth School of Mines (DSM), and Harvard (H). You guess that the probabilities you'll be accepted are: $p(\text{UCSF}) = 0.10$, $p(\text{DSM}) = 0.30$, and $p(\text{H}) = 0.50$. Assume that the acceptance events are independent.

- (a) What is the probability that you get in somewhere (at least one acceptance)?
- (b) What is the probability that you will be accepted by both Harvard and Duluth?

- (a) The simplest way to solve this problem is to recall that when probabilities are independent, and you want the probability of events A AND B , you can multiply them. When events are mutually exclusive and you want the probability of events A OR B , you can add the probabilities. Therefore we try to structure the problem into an AND and OR problem. We want the probability of getting into H OR DSM or UCSF. But this doesn't help because these events are not mutually exclusive (mutually exclusive means that if one happens, the other cannot happen). So we try again. The probability of acceptance somewhere, $P(a)$, is $P(a) = 1 - P(r)$, where $P(r)$ is the probability that you're rejected everywhere. (You're either accepted somewhere or you're not.) But this probability can be put in the above terms. $P(r)$ = the probability that you're rejected at H AND at DSM AND at UCSF. These events are independent, so we have the answer. The probability of rejection at H is $p(r\text{H}) = 1 - 0.5 = 0.5$. Rejection at DSM is $p(r\text{DSM}) = 1 - 0.3 = 0.7$. Rejection at UCSF is $p(r\text{UCSF}) = 1 - 0.1 = 0.9$. Therefore $P(r) = (0.5)(0.7)(0.9) = 0.315$. Therefore the probability of at least one acceptance = $P(a) = 1 - P(r) = 0.685$.

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Steve Pressé, Ioannis Sgouralis



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