

Warm-Up for Day 7

Prof. Jordan C. Hanson

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1 Understanding the Two Rules of Probability

1. Consider a *fair coin* where the probability of a heads, $P(H)$, is 0.5, and the probability of a tails, $P(T)$, is 0.5 as well. What is the probability of the following sequence: HHTTHHTT?
2. What is the probability of flipping a HTT OR a THH?
3. What is the probability of flipping a HT, AND then a TH?
4. What is the probability of flipping a HT AND a TH, OR a TTH AND a HTT?