Probability Worksheet

Remember: always define your probability space—an exhaustive list of what could happen.

Rule One: when two events are independent the probability of them both happening is the product of the two probabilities.

Rule Two: when two possibilities are mutually exclusive, the probability of either of them happening is the sum of the two probabilities.

Solo Tossing

What is the probability of getting three heads in a row?

What is the probability of getting heads, then tails, then heads?

What is the probability of getting two tails when you toss three times?

Networked Probability

What is the probability that two people in your group get the same toss?

What is the probability that two people in your group get the exact same sequence of heads and tails when everyone tosses twice?

What is the probability that two people in your group get the exact same sequence of heads and tails when everyone tosses \( n \) times?