Product rule for independent events

P(A and B) = P(A) x P(B)

Or more generally, P(A1 and … and Ak) = P(A1) x … x P(Ak)

You toss a coin twice, what is the probability of getting two tails in a row?

P(T on the first toss) x P(T on the second toss)

= (1 / 2) x (1 / 2) = 1 / 4