

Puzzle

Your friend flips 2 coins out of your view. You look at 1 of the coins and see that it is heads. What is the chance that the other one is heads as well?

Explanation 1: The two flips are independent, so whether the first one was heads does not affect the second flip. Therefore there is a 1/2 chance that the other coin is heads.

Explanation 2: You now have the information that at least one of the two coins is heads, which narrows your possibilities down to three: HH, HT, and TH. Only one of these is HH, so the chance that the other coin is heads is only 1/3.

What is the answer?