

Challenge Problem 36: Black Socks

A dresser has 3 drawers.

- One drawer contains only 2 black socks.
- One drawer contains only 2 white socks.
- One drawer contains 1 black sock and 1 white sock.

You select a drawer at random. Without looking you reach in and pull out a black sock. What is the probability that the other sock in that drawer is black?

