

1. Suppose G and S are events with non-zero probability. By definition,

$$P(G|S) = \underline{\hspace{2cm}}$$

1. Events A and B are said to be *independent* if: _____
3. A jar contains 5 red, 3 green and 2 black beads. One is taken out at random and then—without replacing the first—a second is taken. Given that both beads are the same color, what is the probability that they are green?