

Probability of Compound Independent Events

Name _____

Brenda rolls 2 fair number cubes (dice) with faces numbered 1 through 6.

1. What is the probability that she will roll a 4 on each cube?
2. What is the probability that one cube will show a number less than 3 and the other will show a number greater than 3?

Mike has 25 red tiles, 10 green tiles, and 15 blue tiles in a paper bag. He draws a tile at random from the bag, returns it to the bag and then draws a second tile.

3. What is the probability that the first tile is green and the second tile is blue?
4. What is the probability that the first tile is red and the second is blue?
5. What is the probability that the first and second tiles are both green?
6. The weather forecast reports that the probability of rain today is 50% and the probability of rain tomorrow is 50%. What is the probability that it will rain on both days?