

1 Box of Marbles

Note 14

You are given two boxes: one of them containing 900 red marbles and 100 blue marbles, the other one contains 500 red marbles and 500 blue marbles.

- (a) If we pick one of the boxes randomly, and pick a marble what is the probability that it is blue?

- (b) If we see that the marble is blue, what is the probability that it is chosen from box 1?

- (c) Suppose we pick one marble from box 1 and without looking at its color we put it aside. Then we pick another marble from box 1. What is the probability that the second marble is blue?

