Answer on Question #59363 – Math –Statistics and Probability

Question

Suppose a box contains 4 red and 3 black balls. Compute the probability that the second ball drawn is red if the first ball drawn was black.

Solution

After drawing the first black ball we have 4 red and 2 black balls in a box. Then the required probability is equal to $\frac{number\ of\ the\ red\ balls}{number\ of\ all\ the\ balls} = \frac{4}{4+2} = \frac{4}{6} = \frac{2}{3}$.

Answer: $\frac{2}{3}$.