

Answer on Question #79096 – Math – Statistics and Probability

Question

A box contain three slips of paper marked 1,2,3 and in another box three slips of paper marked 4,5,6. One from each box is drawn.

- a) Find the probability of both being odd?
b) find the probability of at least one odd?

Solution

a) The probability that the first odd: $p_1 = \frac{2}{3}$ (mark 1 or mark 3).

The probability that the second odd: $p_2 = \frac{1}{3}$ (only mark 5).

Then the required probability is $p = p_1 p_2 = \frac{2}{9}$.

b) the probability that both even: $q = \frac{1}{3} \cdot \frac{2}{3} = \frac{2}{9}$.

Then the required probability is $p = 1 - q = \frac{7}{9}$.

Answer: a) $p = \frac{2}{9}$, b) $p = \frac{7}{9}$.